Appendix E Traffic Impact Study

TRANSPORTATION IMPACT STUDY FOR THE CENTURY TRUNK LINE PROJECT

LOS ANGELES, CALIFORNIA

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PREPARED FOR

Environmental Science Associates (ESA)

FEHR > PEERS

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1. INTRODUCTION

This report documents the assumptions, methodologies, and findings of a study conducted by Fehr & Peers to evaluate transportation impacts during construction of the proposed Los Angeles Department of Water and Power (LADWP) Century Trunk Line (CTL) Project, located in City of Los Angeles and the City of Inglewood. This study was conducted as part of an environmental document being prepared for the proposed project.

PROJECT DESCRIPTION

LADWP is proposing the Century Trunk Line Project (proposed project) that will replace approximately 15,900 feet of existing 36-inch Stone Canyon Outlet Line located on Century Boulevard between Sepulveda Boulevard and Prairie Avenue. The replacement is required due to the deteriorated condition of the existing water line. The proposed project will install approximately 18,000 feet of 48-inch diameter pipe on an alignment with in 98th Street, Concourse Way (a future street), and Arbor Vitae Street and will be divided into two units. Additionally, two 24-inch pipes will connect the proposed trunk line to two existing regulator stations: Sepulveda & Century Regulator Station and Century & Alley east of Aviation Regulator Station. The existing Sepulveda & Century Regulator Station is currently located in the middle of the street and will be relocated off of Sepulveda Boulevard, between 98th Street and the existing regulator station.

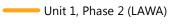
The proposed project will be divided into two units: Unit 1 will be located in the City of Los Angeles and Unit 2 will be located in the City of Inglewood. **Figure 1** illustrates the location of the proposed project. Unit 1 will replace approximately 7,600 feet of existing pipe on Century Boulevard between Sepulveda Boulevard and La Cienega Boulevard. A new 9,700 foot long pipe will be installed along 98th Street from Sepulveda Boulevard to Concourse Way (a new street being built to serve the future Consolidated Rent-A-Car (ConRAC) facility), on Concourse Way from 98th Street to Arbor Vitae Street, and on Arbor Vitae Street from Concourse Way to La Cienega Boulevard. Unit 2 will replace approximately 8,300 feet of existing pipe on Century Boulevard from La Cienega Boulevard to Prairie Avenue with 8,300 feet of new pipe on Arbor Vitae Street from La Cienega Boulevard to Prairie Avenue. Upon completion the existing trunk line beneath Century Boulevard will be abandoned in place.



Trunk Line

Phase

Unit 1, Phase 1 (LADWP)



Unit 1, Phase 3 (LAWA)

Unit 2

Figure 1

Century Trunk Line Location and Phasing



UNIT 1

The construction of Unit 1 will be conducted in three phases. Due to their proximity to the ongoing construction of LAX Landside improvements, Los Angeles World Airports (LAWA) will construct Phases 2 and 3 of Unit 1 for LADWP. During construction of Unit 1 and 2 laydown areas will be located near each worksite and also on LAWA-owned land in the vicinity.

Phase 1 will include installation of a 48-inch pipeline beneath 98th Street from Sepulveda Boulevard to Bellanca Avenue. The pipeline will be installed entirely within the roadway right-of-way (ROW) of 98th Street. Phase 1 also includes the installation of two 24-inch pipelines to connect the new facility to the existing line on Century Boulevard. The western of these connections would be located underneath Sepulveda Boulevard. The eastern of these connections would be located east of Aviation Boulevard.

Phase 2 includes the installation of a 48-inch pipe that would connect the eastern portion of the main trunk line from Phase 1 starting at Bellanca Avenue and will be installed beneath the future eastward extension of 98th Street to Concourse Way (a future street). 98th Street will be extended as part of LAWA's Landside Access Modernization Program (LAMP).

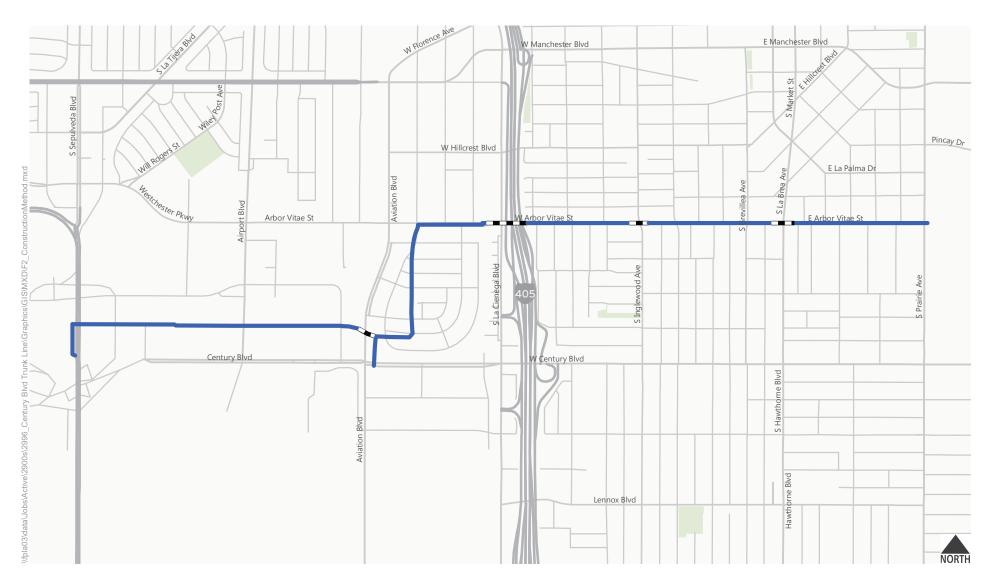
Phase 3 will construct a 48-inch pipe that will connect the eastern portion of the pipeline from Phase 2 and be installed north along Concourse Way, a new street being built as part of the LAMP project to serve the planned consolidated Rent-A-Car (ConRAC) facility, to Arbor Vitae Street. The pipeline will extend eastward within the Arbor Vitae Street right-of-way and will terminate near Hindry Avenue, west of La Cienega Boulevard. This segment of Arbor Vitae Street has a frontage road south of the main roadway, which will be incorporated into a widened main roadway as part of the LAMP project.

UNIT 2

Unit 2 will install approximately 8,300 feet of new pipe on Arbor Vitae Street, connecting the eastern end of the Unit 1 pipeline and travel east along Arbor Vitae Street to Prairie Avenue where it connects with the Baldwin Outlet Line.

PROJECT CONSTRUCTION

Construction of the proposed project will occur along existing street rights-of-way primarily using a conventional cut-and-cover method, but a jacking and boring (pipe jacking) method will be used at four locations. **Figure 2** shows the planned construction methods along the proposed trunk line. Conceptual plans for Unit 1 of the project have been prepared and are shown in **Appendix C**. Detailed project plans for Unit 2 have not yet been prepared. Throughout the entire length of the project alignment, the specific location of the new pipeline within the 98th Street and Arbor Vitae Street rights-of-way will be determined during final design and its location will be chosen to avoid conflict with existing underground utilities. Complete, full-width, road closures are not anticipated. However, partial closures would be necessary.



Trunk Line

Construction Method

Cut and Cover



Jack and Bore

Figure 2

Century Trunk Line Construction Methods



CUT-AND-COVER

The cut-and-cover construction method involves excavation, installation of shoring, pipeline installation, backfill and compaction, restoration of curbs and utilities, and repaving the affected road. The trench would be approximately seven feet wide and eight to 24 feet deep, depending on the location of existing utilities. The total open trench length for Unit 1 would be approximately 9,275 feet. The total open trench length for Unit 1 would be approximately 9,275 feet. The total open trench length for Unit 2 would be approximately 6,800 feet. Trenching would be done in segments of no more than 500 feet, within work areas of up to approximately 1,200 feet. The work area would include a clear zone for workers and equipment, and laydown areas for materials and spoils, as needed.

PIPE JACKING

For Unit 1, a total pipe jacking length of 325 feet would occur along the future 98th Street in the vicinity of Aviation Boulevard. The typical jacking pit width would be approximately 14 feet wide and 44 feet long while the receiving pit would be approximately 14 feet wide and 20 feet long. Both pits would reach excavation depths of approximately 40 feet each.

For Unit 2, a total pipe jacking length of 1,600 feet would occur along Arbor Vitae Street at three different locations. The proposed pipeline would travel below La Cienega Boulevard and Interstate 405, Inglewood Avenue, and La Brea Avenue. The typical jacking pit width would be approximately 14 feet wide and 44 feet long while the receiving pit would be approximately 14 feet wide and 20 feet long. Both pits would reach excavation depths of approximately 40 feet beneath major intersections and would be up to 100 feet deep when crossing I-405.

CONSTRUCTION SCHEDULE

Based on the schedule provided by LADWP, construction of the project is planned to begin in September 2018 and expected to be completed by June 2022, for a total of approximately three to four years. The breakdown of the construction schedule is listed below:

- Unit 1, Phase 1: September 2018 June 2020
- Unit 1, Phase 2: September 2018 June 2022
- Unit 1, Phase 3: September 2018 June 2022
- Unit 2: January 2020 June 2022

Construction for both Units 1 and 2 would occur Monday through Friday, within the hours of 7:00 AM and 6:00 PM. If needed, construction may be extended to 9:00 PM for Unit 1, as allowed by the City of Los Angeles noise ordinance, and 8:00 PM for Unit 2, as allowed by the City of Inglewood. Nighttime construction outside of the allowable City of Los Angeles and City of Inglewood noise ordinances is not anticipated over most of the alignment. Where in-street construction is required within Sepulveda Boulevard and Century Boulevard (Phase 1) and Aviation Boulevard (Phase 2), evening or overnight construction may occur.



Each 1,200-foot work area for pipeline cut and cover activities would last approximately three months. Jack and bore activities at each sending/receiving pit, including excavation, shoring, pipeline installation, and backfill would last approximately six months. Extended work timelines and road closures could be required if unanticipated utilities are encountered during excavation. Upon completion, the project would require no more routine maintenance than the existing water line in the area, and no impact on traffic operations would be expected.

STUDY SCOPE

The scope of this traffic impact analysis of construction conditions in this report was discussed with the Los Angeles Department of Transportation (LADOT) and the City of Inglewood. Because this is an infrastructure project, with no long-term operational traffic effects, this study is being prepared voluntarily and LADOT does not require preparation of a Memorandum of Understanding (MOU). The overall approach is consistent with the procedures defined in the L.A. CEQA Thresholds Guide (2006) for analyzing in-street construction impacts. The traffic analysis includes a description of the project area and existing conditions, presents project trip generation estimates, and provides a qualitative assessment of the project's construction-period impacts relative to the City of Los Angeles's adopted thresholds for evaluating in-street construction impacts.

TRAFFIC SCENARIOS

Project-related construction is to take place over the course of several years and this study is directed at analyzing the project impacts on the local street system when construction would take place (future year traffic conditions). The following traffic scenarios have been developed and analyzed as part of this study:

- <u>Existing Conditions</u> The information on existing traffic conditions is intended to provide a basis for the remainder of the study. The existing conditions analysis included a description of key area streets and highways, traffic volumes, current intersection and roadway operating conditions, and local transit service in the area.
- <u>Future Base Year 2020 Conditions, Unit 1</u> This scenario projected the future traffic growth and intersection operating conditions that could be expected from regional growth and known "related projects" in the vicinity of the project site by year 2020, when the majority of construction of Phase 1 of Unit 1 would take place on 98th Street. These analyses provided the future setting in which impacts of this element of the project would occur.
- <u>Future Base Year 2022 Conditions, Unit 2</u> This scenario projected the future traffic growth and intersection operating conditions that could be expected from regional growth and known "related projects" in the vicinity of the project site by year 2022, the last year when construction for Unit 2 would take place. These analyses provided the "baseline" conditions by which project impacts were evaluated. These analyses provided the future setting in which impacts of this element of the project would occur.

STUDY LOCATIONS

The study examined 10 intersections and 10 street segments in the vicinity of the project site for each of the above traffic scenarios. The study locations are listed below and illustrated in **Figure 3**.





Intersections:

- 1. 98th Street & Sepulveda Boulevard
- 2. Vicksburg Avenue & 98th Street
- 3. Avion Drive & 98th Street
- 4. Airport Drive & 98th Street
- 5. Bellanca Avenue & 98th Street
- 6. La Cienega Boulevard & Arbor Vitae Street
- 7. Oak Street & Arbor Vitae Street
- 8. Inglewood Avenue & Arbor Vitae Street
- 9. La Brea Avenue & Arbor Vitae Street
- 10. Prairie Avenue & Arbor Vitae Street

Street Segments:

- 1. Sepulveda Boulevard north of Century Boulevard
- 2. 98th Street east of Sepulveda Boulevard
- 3. 98th Street east of Vicksburg Avenue
- 4. 98th Street east of Avion Drive
- 5. 98th Street east of Airport Boulevard
- 6. Arbor Vitae Street west of La Cienega Boulevard
- 7. Arbor Vitae Street east of Oak Street
- 8. Arbor Vitae Street east of Inglewood Avenue
- 9. Arbor Vitae Street west of La Brea Avenue
- 10. Arbor Vitae Street west of Prairie Avenue

ORGANIZATION OF REPORT

This report is divided into five chapters, including this introduction. Chapter 2 describes the existing conditions including an inventory of the streets, highways, and transit service in the study area, a summary of existing traffic volumes, and an assessment of existing operating conditions. Chapter 3 describes the methodologies used to develop future cumulative traffic forecasts and project traffic volumes. Chapter 4 presents an assessment of potential temporary traffic impacts on intersection and street segment operations in the vicinity of the project site. Chapter 5 summarizes the conclusions of the study and the recommendations intended to mitigate the adverse impacts expected to occur during construction of the proposed project.



2. EXISTING CONDITIONS

A comprehensive data collection effort was undertaken to develop a detailed description of existing conditions in the study area. The assessment of conditions relevant to this study includes a description of the study area, an inventory of the local street system in the vicinity of the project site, a review of traffic volumes on these facilities, an assessment of the resulting operating conditions, and the current transit service in the study area. A detailed description of these elements is presented in this chapter.

STUDY AREA

The project site is within the Westchester-Playa Del Rey Community Plan area of the City of Los Angeles and within the City of Inglewood. The study area selected for analysis extends to include Sepulveda Boulevard to the west and Prairie Street to the east. The surface streets in the study area are under the jurisdiction of the City of Los Angeles or the City of Inglewood.

EXISTING STREET SYSTEM

Arterials serving the study area include Sepulveda Boulevard, La Cienega Boulevard, La Brea Avenue and Prairie Avenue in the north/south direction and Century Boulevard and Arbor Vitae Street in the east/west direction. The alignment of the proposed project crosses the San Diego freeway (I-405). The Glenn Anderson Freeway (I-105, Century Freeway) lies approximately one mile south of the project site on 98th Street. Both freeways provide regional access to and from the project site. The physical characteristics and functional classifications for the above key streets in the project alignment area are summarized in **Table 1**. Existing parking supply has been included in **Table 2** and **Table 3**.

The characteristics of the major roadways serving the study area are described below. The street descriptions include the designation of the roadway under the *Mobility Plan 2035* (Los Angeles Department of Planning, General Plan Mobility Element, 2016) and the City of Inglewood General Plan.

| _ | _ | _ | Functional | No. c | of Lanes | Median | Parking R | estrictions | Spee |
|--------------------|--------------------------|---------------------------------------|----------------|----------|-------------|----------------|-----------|-------------|------|
| Segment | From | То | Classification | NB/EB | SB/WB | Туре | NB/EB | SB/WB | Limi |
| 98th Street | Sepulveda Boulevard | Vicksburg Avenue | Collector | 1 | 1 | SDY | 2HR | 2HR | 30 |
| | Vicksburg Avenue | Avion Drive | Collector | 1 | 1 | 2LT | 2HR | 2HR | 30 |
| | Avion Drive | Airport Boulevard | Collector | 1 | 1 | 2LT | NPAT | 2HR | 30 |
| | Airport Boulevard | Bellanca Avenue | Collector | 1 | 1 | 2LT | 2HR | NPAT | 30 |
| Arbor Vitae Street | Aviation Boulevard | Isis Avenue | Class II | 2 | 2 | 2LT | NSAT | NSAT | 35 |
| | Isis Avenue | Hindry Avenue | Class II | 2 | 2 | 2LT | NSAT | NSAT | 3 |
| | Hindry Avenue | Glasgow Avenue | Class II | 2 | 2 | 2LT | PA | NSAT | 3 |
| | Glasgow Avenue | La Cienega Boulevard | Class II | 2 | 2 | 2LT | NSAT | NSAT | 3 |
| | La Cienega Boulevard | Ash Avenue | Secondary | 2 | 2 | DY | PA | NSAT | 3 |
| | Ash Avenue | Oak Street | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | Oak Street | Cedar Avenue | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | Cedar Avenue | Inglewood Avenue | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | Inglewood Avenue | Eucaplyptus Avenue | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | Eucaplyptus Avenue | Fir Avenue | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | Fir Avenue | Walnut Street | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | Walnut Street | Grevillea Avenue | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | Grevillea Avenue | La Brea Avenue | Secondary | 1 | 1 | 2LT | PA | PA | 3 |
| | La Brea Avenue | Larch Street | Collector | 1 | 1 | SDY | PA | PA | 3 |
| | Larch Street | Myrtle Avenue | Collector | 1 | 1 | SDY | PA | PA | 3 |
| | Myrtle Avenue | Flower Street | Collector | 1 | 1 | SDY | PA | PA | 3 |
| | Flower Street | Osage Avenue | Collector | 1 | 1 | SDY | PA | PA | 3 |
| | Osage Avenue | Prairie Avenue | Collector | 1 | 1 | SDY | PA | PA | 3 |
| es: | | · · | | | | | | • | |
| Median Type: | DY = Double Yellow Cer | iterline | | Parking: | PA = Parkin | g Allowed | | | |
| | SDY = Single Dashed Ye | SDY = Single Dashed Yellow Centerline | | | | | | | |
| | 2LT = Dual Left Turn Cer | | | | NPAT = No | Parking Anytim | e | | |
| | | | | | | Stopping Anyti | | | |
| Speed Limit: | miles per hour | | | | | | | | |

| TABLE 2 EXISTING ON-STREET PARKING SUPPLY IN STUDY AREA ON 98TH STREET | | | | | | | | | | | |
|------------------------------------------------------------------------------|----------------------------------------|---------|--------|---------|--------|--|--|--|--|--|--|
| | Number of Parking Spaces | | | | | | | | | | |
| From | То | North | n Side | South | n Side | | | | | | |
| | | Metered | Тахі | Metered | Тахі | | | | | | |
| Sepulveda Boulevard | Vicksburg Avenue | 15 | 0 | 12 | 0 | | | | | | |
| Vicksburg Avenue | Avion Drive | 24 | 0 | 25 | 0 | | | | | | |
| Avion Drive | Airport Boulevard | 39 | 0 | 0 | 5 | | | | | | |
| Airport Boulevard | irport Boulevard Bellanca Avenue 0 0 8 | | | | | | | | | | |

| Number of Parking Spaces [a] | | | | | | | | | | | |
|------------------------------|--------------------|---------|--------|---------|----------|---------|--------|---------|---------|--|--|
| From | То | | North | h Side | | | | h Side | | | |
| | | Regular | 20 Min | Loading | Handicap | Regular | 20 Min | Loading | Handica | | |
| Aviation Boulevard | Isis | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Isis Avenue | Hindry Place | 6 | 0 | 0 | 0 | 68 [b] | 0 | 0 | 0 | | |
| Hindry Place | La Cienega | 4 | 0 | 0 | 0 | 35 [b] | 0 | 0 | 0 | | |
| La Cienega Boulevard | Ash Avenue | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Ash Avenue | Oak Street | 18 | 4 | 0 | 0 | 11 | 1 | 0 | 0 | | |
| Oak Street | Cedar Avenue | 17 | 0 | 0 | 0 | 15 | 1 | 0 | 0 | | |
| Cedar Avenue | Inglewood Avenue | 15 | 3 | 1 | 0 | 13 | 2 | 0 | 0 | | |
| Inglewood Avenue | Eucaplyptus Avenue | 13 | 1 | 0 | 1 | 7 | 0 | 0 | 0 | | |
| Eucaplyptus Avenue | Fir Avenue | 7 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | | |
| Fir Avenue | Walnut Street | 16 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | | |
| Walnut Street | Grevillea Avenue | 10 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | | |
| Grevillea Avenue | La Brea Avenue | 15 | 2 | 0 | 0 | 16 | 0 | 0 | 0 | | |
| La Brea Avenue | Larch Street | 14 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | | |
| Larch Street | Myrtle Avenue | 13 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | | |
| Myrtle Avenue | Flower Street | 15 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | | |
| Flower Street | Osage Avenue | 10 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | | |
| Osage Avenue | Prairie Avenue | 10 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | | |

[b] Total number of parking spaces includes both sides of the frontage road, south of the main roadway.

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FREEWAYS

- **I-405** is a north/south freeway that connects the San Fernando Valley and points north to the west side of Los Angeles and south to Long Beach and Orange County. The I-405 freeway travels in a northwest/southeast direction and varies between four and five lanes in each direction with several sections having auxiliary lanes between successive on- and off-ramps.
- **I-105** is an east/west freeway that runs between the area around Los Angeles International Airport and Norwalk. It consists of one HOV lane and three general purpose traffic lanes in each direction.

EAST/WEST STREETS

- **98th Street** is designated as a Collector in the City of Los Angeles' *Mobility Plan 2035* with one travel lane in each direction and a center turn lane east of Vicksburg Avenue. Parking is permitted on both sides of the street. Left-turn pockets are present at all intersections along the project alignment.
- **Arbor Vitae Street** is designated as a Major Arterial in the City of Inglewood General Plan, Circulation Element. Arbor Vitae has two travel lanes in each direction west of La Cienega Boulevard and one travel lane in each direction west of La Cienega Boulevard. Parking is generally available on both sides of the street.
- **Century Boulevard** is designated as a Boulevard I Modified in the City of Los Angeles' *Mobility Plan 2035* with three to four travel lanes in each direction and left-turn pockets at most intersections. On-street parking is not permitted on Century Boulevard.

NORTH/SOUTH STREETS

- **Sepulveda Boulevard** is designated as a Boulevard I with five travel lanes in each direction in the project vicinity. Parking is prohibited along both sides of the street.
- **Vicksburg Avenue** is designated as a Local Street with one travel lane in each direction. Parking is permitted on both sides of the street within the study area.
- Avion Drive is designated as a local street with one to two travel lanes in each direction. Parking is prohibited on both sides of the street, north of 98th Street.
- **Airport Boulevard** is designated as a Boulevard II with three southbound travel lanes and two northbound travel lanes. Parking is prohibited south of 98th Street along both sides of the street.
- **Bellanca Avenue** is designated as an Avenue III with one travel lane in both directions. Parking is prohibited along both sides of the street within the study area.
- La Cienega Boulevard is designated as a Boulevard II with two travel lanes in each direction. Parking is prohibited along both sides of the street within the study area.
- **Oak Street** is designated as a Collector Street according to the Inglewood General Plan and has one travel lane in each direction. Parking is permitted along both sides of the street within the study area.



- **Inglewood Avenue** is designated as a Minor Arterial with one travel lane in each direction. Parking is permitted along both sides of the street within the study area.
- **La Brea Avenue** is designated as a Major Arterial with three travel lanes in each direction. Parking is permitted along both sides of the street within the study area.
- **Prairie Avenue** is designated as a Major Arterial with three travel lanes in each direction. Parking is prohibited along both sides of the street within the study area.

Lane configurations of the study intersections are provided in Figure 4.

EXISTING PUBLIC TRANSIT SERVICE

Six bus lines currently serve the study area. These transit lines are described below:

Big Blue Bus Route 3 – Route 3 is a north/south local line that runs from Downtown Santa Monica to the Metro Green Line Aviation/LAX Station. The line has 10-minute headways during the AM and PM peak periods. In the vicinity of the project alignment, service has been moved from Bellanca Avenue to Airport Boulevard as a long-term detour while the Metro Crenshaw/LAX Line is built. While there are stops located on Bellanca Avenue near 98th Street which are not in use currently, service will be restored to Bellanca Avenue in the future.

Metro Line 111 – Line 111 is an east/west local line that runs from the LAX City Bus Center to Norwalk Station. The line has 9- to 20-minute headways during the AM and PM peak periods. The line runs on Arbor Vitae Street within the study area.

Metro Line 211/215 – Line 211/215 is a north/south local line that runs from Redondo Beach to Inglewood. The line has 30- to 60-minute headways during the AM and PM peak periods. The Line 211 runs on Prairie Street and Line 215 runs on Inglewood Avenue within the study area.

Metro Line 40 – Line 40 is a north/south local line that runs from South Bay Galleria to Union Station. The line has 7- to 12-minute headways during the AM and PM peak periods. The line runs on La Brea Avenue within the study area.

Metro Line 442 – Line 442 is an east/west express line that runs from Hawthorne/Lennox Station to Union Station. The line has 25- to 55-minute headways during the AM and PM peak periods. The line runs on La Brea Avenue within the study area.

Metro Line 212/312 – Line 212/312 is an east/west local line that runs from Hawthorne/Lennox Station to Hollywood/Vine Station. The line has 10- to 12-minute headways during the AM and PM peak periods. The line runs on Prairie Avenue within the study area.



EXISTING BICYCLE AND PEDESTRIAN FACILITIES

There are no existing bicycle facilities in the vicinity of the project, including on the streets where the proposed project would be constructed.

The study area has a mature network of pedestrian facilities including sidewalks, crosswalks and pedestrian safety features. Sidewalks are provided on most streets in the study area on both sides of the street, including on the streets where the proposed project would be constructed.

EXISTING TRAFFIC VOLUMES AND LEVEL OF SERVICE

This section presents existing peak hour traffic volumes, describes the methodology used to assess the traffic conditions at each intersection, and analyzes the resulting operating conditions at each, indicating volume-to-capacity (V/C) ratios and levels of service (LOS).

EXISTING TRAFFIC VOLUMES

New weekday AM and PM peak period turning movement counts were collected at the study intersections in February 2018. The existing weekday morning and afternoon peak hour volumes and lane configurations at the study intersections are shown in **Figure 4**. Count sheets for these intersections are contained in **Appendix A**.



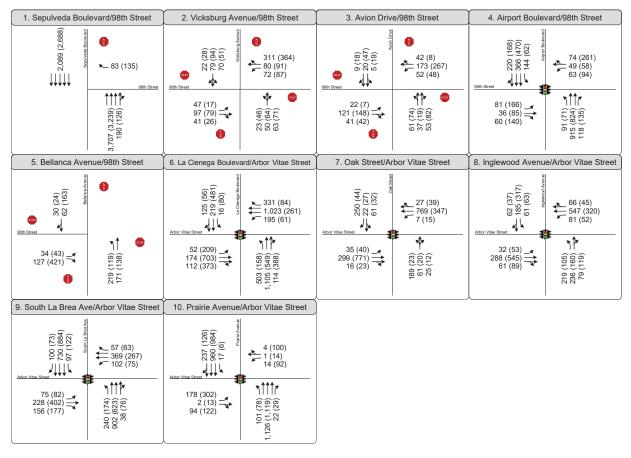




Figure 4 Peak Hour Traffic Volumes and Lane Configurations Existing (2018) Conditions



INTERSECTION LEVEL OF SERVICE METHODOLOGY

A variety of standard methodologies are available to analyze LOS. According to *Traffic Study Policies and Procedures* (LADOT, December 2016), this study is required to use the Critical Movement Analysis (CMA) method of intersection capacity calculation (Transportation Research Board, 1980) to analyze the signalized intersections in the City of Los Angeles. The V/C ratio is then used to find the corresponding LOS based on the definitions in **Table 4**. Under the CMA methodology, a V/C ratio is generated for the one signalized study intersection in Los Angeles based on factors such as the volume of traffic and the number of lanes providing for such vehicle movement and an LOS grade. While the City does not have a specific target LOS, LOS D or better is generally considered to be desirable in an urban context.

The City of Los Angeles' Automated Traffic Surveillance and Control (ATSAC) system is a computer-based traffic signal control system that monitors traffic conditions and system performance to allow ATSAC-operations to manage signal timing to improve traffic flow conditions. The Adaptive Traffic Control System (ATCS) is an enhancement to ATSAC and provides fully traffic-adaptive signal control based on real-time traffic conditions. The one signalized study intersection in the City of Los Angeles is currently operating under the City's ATSAC system and ATCS control. ATSAC and ATCS provide improved operating conditions. Therefore, in accordance with City of Los Angeles procedures, a credit of 0.07 V/C reduction was applied at each intersection where ATSAC is implemented.

| TABLE 4 LEVEL OF SERVICE DEFINITIONS FOR SIGNALIZED INTERSECTIONS CMA AND ICU METHODOLOGY | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| Level of ServiceVolume/Capacity RatioDefinition | | | | | | | | | | |
| A | 0.000 - 0.600 | EXCELLENT. No vehicle waits longer than one red light and no approach phase is fully used. | | | | | | | | |
| В | >0.600 - 0.700 | VERY GOOD. An occasional approach phase is fully utilized; many drivers begin to feel somewhat what restricted within groups of vehicles. | | | | | | | | |
| С | >0.700 - 0.800 | GOOD. Occasionally drivers may have to wait through more than one red light; backups may develop behind turning vehicles. | | | | | | | | |
| D | >0.800 - 0.900 | FAIR. Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups. | | | | | | | | |
| E | >0.900 - 1.000 | POOR. Represents the most vehicles intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles. | | | | | | | | |
| F | > 1.000 | FAILURE. Backups from nearby locations or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths | | | | | | | | |
| Source: <i>Transportation R</i> 1980. | Source: Transportation Research Circular No. 212, Interim Materials on Highway Capacity, Transportation Research Board, | | | | | | | | | |



May 2018

The City of Los Angeles does not require LOS analysis for unsignalized intersections. Rather, the *Transportation Impact Study Guidelines* states that "unsignalized intersections should be evaluated solely to determine the need for the installation of a traffic signal or other traffic control device." Because the alignment of Phase 1 of Unit 1 of the proposed project includes four unsignalized intersections that would be affected during early stages of project construction, this study presents existing and projected traffic volumes and LOS for each. This is intended to provide information for the public and decision-makers to consider during the project approval process and for agency staff as the plans for the proposed project are finalized and traffic management plans are developed. The 2010 Highway Capacity Manual (HCM) was used to determine the average vehicle delay (in seconds) and the corresponding LOS for selected stop-controlled study intersections. The LOS definitions for the stop-controlled intersections are included in **Table 5**.

Signalized intersections in the City of Inglewood were analyzed using Intersection Capacity Utilization (ICU) method, consistent with that City's practices. The ICU method estimates the V/C ratio for an intersection based on the individual V/C ratios for the conflicting traffic movements. The ICU value represents the percent signal green time of capacity of the intersection movements. The overall intersection V/C ratio is subsequently assigned an LOS value to describe intersection operations in **Table 4**. LOS ranges from LOS A (free flow) to LOS F (jammed condition).

EXISTING INTERSECTION LEVELS OF SERVICE

Existing traffic volumes presented in **Figure 4** were analyzed using the intersection capacity analysis methodology described above to determine the existing operating conditions at the study intersections. **Table 6** summarizes the results of the analysis of the existing weekday morning and afternoon peak hour V/C ratio and corresponding LOS at each of the analyzed intersections. As indicated, all 10 intersections analyzed for impacts operate at LOS D or better during both peak periods. Analysis sheets are provided in **Appendix B**.

| TABLE 5 HCM LEVEL OF SERVICE DEFINITIONS FOR STOP-CONTROLLED INTERSECTIONS | | | | | | | | | |
|----------------------------------------------------------------------------------|--------------------------------|--|--|--|--|--|--|--|--|
| Level of Service Average Control Delay (seconds/vehicle) | | | | | | | | | |
| A | <u><</u> 10.0 | | | | | | | | |
| В | > 10.0 and <u><</u> 15.0 | | | | | | | | |
| С | > 15.0 and <u><</u> 25.0 | | | | | | | | |
| D | > 25.0 and <u><</u> 35.0 | | | | | | | | |
| E | > 35.0 and <u><</u> 50.0 | | | | | | | | |
| F | > 50.0 | | | | | | | | |
| Source: Highway Capacity Manual, Transp | ortation Research Board, 2010. | | | | | | | | |

| TABLE 6 EXISTING (2018) INTERSECTION LEVELS OF SERVICE | | | | | | | | | | | |
|-----------------------------------------------------------|----------------------------------------------|----------|-----------------|----------|--|--|--|--|--|--|--|
| | INTERCECTION | PEAK | EXISTIN | G (2018) | | | | | | | |
| NO. | INTERSECTION | HOUR | V/C or Delay | LOS | | | | | | | |
| 1 | Sepulveda Blvd & | AM | 9.0 | A | | | | | | | |
| | 98th Street | PM | 9.4 | A | | | | | | | |
| 2 | Vicksburg Avenue & | AM | 13.0 | B | | | | | | | |
| | 98th Street | PM | 15.1 | C | | | | | | | |
| 3 | Avion Drive & | AM | 9.8 | A | | | | | | | |
| | 98th Street | PM | 11.9 | B | | | | | | | |
| 4 | Airport Boulevard & | AM | 0.437 | A | | | | | | | |
| | 98th Street | PM | 0.539 | A | | | | | | | |
| 5 | Bellanca Avenue & 98th Street | AM PM | 10.5 13.9 | B | | | | | | | |
| 6 | La Cienega Boulevard & | AM | 0.875 | D | | | | | | | |
| | Arbor Vitae Street | PM | 0.817 | D | | | | | | | |
| 7 | Oak Street & | AM | 0.688 | B | | | | | | | |
| | Arbor Vitae Street | PM | 0.428 | A | | | | | | | |
| 8 | Inglewood Avenue & | AM | 0.663 | B | | | | | | | |
| | Arbor Vitae Street | PM | 0.726 | C | | | | | | | |
| 9 | South La Brea Avenue & Arbor Vitae Street | AM PM | 0.609 0.691 | BB | | | | | | | |
| 10 | Prairie Avenue & | AM | 0.526 | A | | | | | | | |
| | Arbor Vitae Street | PM | 0.640 | B | | | | | | | |



STREET SEGMENT LEVEL OF SERVICE METHODOLOGY

The V/C ratio and corresponding LOS of each segment was calculated. 98th Street is classified as a Collector Street and Arbor Vitae Street is classified as a Major Highway. In order to provide a conservative analysis, however, and to reflect the current characteristics of the street, Arbor Vitae was treated as a Class II Highway west of La Cienega Boulevard, as a Secondary Highway from La Cienega Boulevard to La Brea Avenue, and as a collector east of La Brea Avenue.

A capacity of 1,000 vehicles per lane per hour (vplph) for Class I arterials, 800 vplph for Class II arterials, 700 vplph for Secondary streets, and 600 vplph for Collector streets were used in this analysis. These segment capacities have been used in studies for projects in the City of Los Angeles. Detailed assessment of the existing operating conditions at these 10 roadway segments and the LOS definitions for roadway segments are included in **Table 7**.

EXISTING STREET SEGMENT LEVELS OF SERVICE

Existing year street segment volumes for the highest hour in the 12-hour AM period, in the 12-hour PM period on a daily basis are presented in **Table 8**. The one-hour volumes shown in this table may differ from what is shown in the intersection turning movement figures because the intersection analysis is based on the highest total intersection volumes during the defined AM and PM peak periods. The highest hourly volumes on 98th Street occur westbound approaching Vicksburg Avenue, which aligns with the grade-separated access road that leads directly to the Central Terminal Area. Hourly volumes on Arbor Vitae Street are consistently higher westbound in the AM period and eastbound in the PM period. Applying the functional classifications and segment capacities shown, congested conditions are shown to occur during the busiest hours of a typical weekday at these locations.

TABLE 7 ROADWAY SEGMENT LEVEL OF SERVICE DEFINITIONS

| LEVEL OF SERVICE | DEFINITION | DESCRIPTION |
|------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | V/C <u><</u> 0.6 | Describes primarily free flow operations at average travel speeds usually about 90% of the free flow speed for the arterial class. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Stopped delay at signalized intersections is minimal. |
| В | 0.6 < V/C <u><</u> 0.7 | Represents reasonably unimpeded operations at average travel speeds usually about 70% of the free flow speed for the arterial class. The ability to maneuver within the traffic stream is only slightly restricted and stopped delays are not bothersome. |
| С | 0.7 < V/C <u><</u> 0.8 | Represents stable operations, however, ability to maneuver and change lanes in midblock locations may be more restricted than in LOS B, and longer queues and/or adverse signal coordination may contribute to lower average travel speeds of about 50% of the average free flow speed for the arterial class. |
| D | 0.8 < V/C <u><</u> 0.9 | Borders on a range on which small increases in flow may cause substantial increases in approach delay and, hence, decreases in arterial speed. This may be due to adverse signal progression, inappropriate signal timing, high volumes, or some combination of these. Average travel speeds are about 40% of free flow speed. |
| E | 0.9 < V/C <u><</u> 1.0 | Is characterized by significant approach delays and average travel speeds of one-third the free flow speed or lower. Such operations are caused by some combination of adverse progression, high signal density, extensive queuing at critical intersections, and inappropriate signal timing. |
| F | V/C > 1.0 | Characterizes arterial flow at extremely low speeds below one-third to one-quarter of the free flow speed. Intersection congestion is likely at critical signalized locations, with high approach delays resulting. Adverse progression is frequently a contributor to this condition. |

| | | | | EXIST | 'ING STUI | DY ROAD | TABLE WAY SEGMENT | | S AND LEVEL | S OF SER | VICE | | | | | | | | |
|--------------------------------------------------------|--------------------|-----------------------|-----------------------|--------------|-----------------------|-----------------------|----------------------|--------------|-----------------|---------------|-----------------|--------------|------------|--------------|--------------|--------------|----------|---------------|-----|
| | | XISTING | (2018) TR | AFFIC VO | LUMES [a |] | EXIS | TING RO | ADWAY CAP | ACITY [b] |] | | E | XISTING I | ROADWA | Y LEVEL C | OF SERVI | CE | |
| | | NB/EB | | | SB/WB | | | N | B/EB | 6.0 | /WB | | NB | /EB | | | SB, | /WB | |
| | | | | | - | | Roadway | IN | D/ED | 36 | / VV D | Highest | t AM Hr | Highes | t PM Hr | Highest | t AM Hr | Highest PM Hr | |
| Location | Daily | Highest AM Hour | Highest PM Hour | Daily | Highest AM Hour | Highest PM Hour | Classification | Lanes | Capacity | Lanes | Capacity | v/c | LOS | V/C | LOS | v/c | LOS | V/C | LOS |
| Unit 1 | | | | | | | | | | | | | | | | | | | |
| 1 Sepulveda Boulevard b/w World Way and 98th Street | 55,079 | 4,233 | 3,402 | 30,546 | 2,111 | 2,688 | Class I | 4 | 4,000 | 5 | 5,000 | 1.058 | F | 0.851 | D | 0.422 | A | 0.538 | A |
| 2 98th Street east of Sepulveda Boulevard | 2,968 | 219 | 187 | 1,601 | 142 | 138 | Collector | 1 | 600 | 1 | 600 | 0.365 | А | 0.312 | A | 0.237 | A | 0.230 | A |
| 3 98th Street east of Vicksburg Avenue | 3,332 | 230 | 212 | 7,895 | 549 | 565 | Collector | 1 | 600 | 1 | 600 | 0.383 | A | 0.353 | A | 0.915 | E | 0.942 | E |
| 4 98th Street east of Avion Drive | 3,533 | 218 | 282 | 4,750 | 276 | 317 | Collector | 1 | 600 | 1 | 600 | 0.363 | А | 0.470 | А | 0.460 | А | 0.528 | A |
| 5 98th Street east of Airport Boulevard | 3,239 | 195 | 306 | 3,183 | 258 | 207 | Collector | 1 | 600 | 1 | 600 | 0.325 | А | 0.510 | A | 0.430 | А | 0.345 | A |
| Unit 2 | | | | | | | - | | | | | р | | | | | | | |
| 6 Arbor Vitae Street west of La Cienega Boulevard | 13,034 | 791 | 1,360 | 12,612 | 1,687 | 680 | Class II | 2 | 1,600 | 2 | 1,600 | 0.494 | А | 0.850 | D | 1.054 | F | 0.425 | A |
| 7 Arbor Vitae Street east of Oak Street | 9,322 | 514 | 799 | 8,948 | 927 | 519 | Secondary | 1 | 700 | 1 | 700 | 0.734 | С | 1.141 | F | 1.324 | F | 0.741 | С |
| 8 Arbor Vitae Street east of Inglewood Avenue | 9,337 | 490 | 762 | 8,007 | 726 | 487 | Secondary | 1 | 700 | 1 | 700 | 0.700 | В | 1.089 | F | 1.037 | F | 0.696 | В |
| 9 Arbor Vitae Street west of La Brea Avenue | 8,138 | 451 | 662 | 8,113 | 708 | 495 | Secondary | 1 | 700 | 1 | 700 | 0.644 | В | 0.946 | E | 1.011 | F | 0.707 | С |
| 10 Arbor Vitae Street west of Prairie Avenue | 5,317 | 288 | 462 | 4,003 | 358 | 254 | Collector | 1 | 600 | 1 | 600 | 0.480 | А | 0.770 | С | 0.597 | А | 0.423 | А |
| | olumes over each : | L2-hour perio | od. Therefor | e these segn | nent volume | s may differ | from the AM/PM pe | ak hour volu | imes at analyze | d intersectio | ns, which are t | ne highest c | ne-hour vo | olumes durir | ng the defin | ed peak peri | iods. | 0.723 | |

[b] Although Arbor Vitae Street is functionally classified as a Major Atterial, this analysis conservatively treats it as a collector street (segment 10), as a Secondary Arterial (segments 7, 8 and 9) and as a Major Highway Class II (segment 6) to reflect its current characteristics. Class II = 800 vehicles per lane per hour Class II = 800 vehicles per lane per hour Class II = 800 vehicles per lane per hour



3. TRAFFIC PROJECTIONS

CONSTRUCTION TRAFFIC

The development of trip generation estimates for the proposed project were based on information provided by LADWP.

CONSTRUCTION PERIOD TRIP GENERATION

Haul Activity

LADWP estimates that approximately 800,000 cubic feet of soils and materials are expected to be exported from the site during excavation for Unit 1. Approximately 581,000 cubic feet of soils and materials are expected to be exported from the site during excavation for Unit 2. The proposed project would require up to approximately 12 truckloads per day (up to approximately 24 1-way truck trips per day per site) during the construction period to haul off excavated soil not needed for backfill, and to import clean backfill material.

Equipment and Delivery Trucks

In addition to haul trucks, the project is also expected to generate equipment and delivery trucks during construction. Approximately two truckloads per day (up to approximately four 1-way truck trips per day per site) would be required for the delivery of construction materials such as piping, asphalt, and equipment associated with the pipelines.

Construction Employees

Approximately 12 workers per day (approximately 24 1-way commute trips per day per site) would be required for open excavation and for pipe jacking construction and pipeline installation. Several work crews could be working simultaneously, with a worst case scenario having five crews: four crews at Unit 1 (two work crews at Phase 1, one crew at Phase 2, and one crew at Phase 3) and one crew at Unit 2.

Trip Generation Analysis

Based on the aforementioned information, a construction period trip generation analysis was conducted. **Table 9** shows a summary of the worst case scenario construction period trip generation estimates under each phase and activity of construction. As shown, each work site is estimated to generate up to 24 employee trips per day and up to 28 truck trips per day. Thus, with five work sites in active construction, the project is estimated to generate up to approximately 260 daily trips. During the periods that four or fewer work sites are in active construction, fewer daily trips would occur. Because planned work hours are between 7:00 AM and 6:00 PM, and relatively few commute trips are anticipated during the morning and evening peak periods. Truck trips would be distributed throughout the day.

| TABLE 9 CONSTRUCTION PERIOD DAILY TRIP GENERATION | | | | | | | | | | | |
|------------------------------------------------------|---------------------------------|--------------------------|-----------------------|------------------------------|-------------|----------------------------------------|--|--|--|--|--|
| Activity | Unit/Phase | Construction Workers | Truck Loads [a] | Construction Worker Trips | Truck Trips | Estimated Daily Trip Generation [b] | | | | | |
| Sending Pit [c] | 1/2 or Unit 2 | 12 | 14 | 24 | 28 | 52 | | | | | |
| Receiving Pit [c] | 1/2 or Unit 2 | 12 | 14 | 24 | 28 | 52 | | | | | |
| Open Trench | 1/1 or 1/2 or 1/3 | 12 | 14 | 24 | 28 | 52 | | | | | |
| Open Trench | 1/1 or 1/2 or 1/3 | 12 | 14 | 24 | 28 | 52 | | | | | |
| Connection | 1 & 2/Connection | 12 | 14 [d] | 24 | 28 | 52 | | | | | |
| TOTAL CONSTRUCTIO | N VEHICLE TRIPS [e] | | | · · · · · · | | 260 | | | | | |
| Notes: | uck loads per day could occur w | with each activity being | a combination of over | ort coil and material d | lalivarias | | | | | | |

[a] Estimated that up to 14 truck loads per day could occur with each activity, being a combination of export soil and material deliveries.

[b] Standard construction hours are from 7 AM to 6 PM, Monday-Friday. All construction workers were assumed to travel by single-occupancy vehicle to and from the vicinity of the construction sites.

[c] Sending and Receiving would occur during pipe jacking activies on the future 98th Street extension in Unit 1 before June 2020 and on Arbor Vitae Street in Unit 2 after June 2020.

[d] Up to five truckloads per date are estimated to normally occur during this phase of construction. However, to allow for a worst-case analysis, the project was assumed to generate up to 14 truckloads per day.

[e] Total daily construction vehicle trips represent the maximum number of trips estimated to occur during the construction period.

FUTURE YEAR 2020 AND 2022 TRAFFIC CONDITIONS

To evaluate the potential impacts of the proposed project on the surrounding street system, it was necessary to develop estimates of future traffic conditions in the area when the construction would occur for Unit 1 and Unit 2. Estimates of traffic growth were developed for the study area to forecast future conditions. These forecasts included traffic increases as a result of both regional ambient traffic growth and traffic generated by specific developments in the vicinity of the project (related projects). These projected traffic volumes, identified herein as the future base 2020 conditions and future base 2022 conditions, represent the future study year conditions when construction for Unit 1 and Unit 2 would occur, respectively.

Future cumulative conditions during construction were evaluated for all street segments where in-street construction activities associated with project alignment alternatives analyzed could result in temporary lane closures. Because the project would occur in several stages over a multi-year period, all roadway segments and intersections in the vicinity of the project were evaluated for the future year 2020 and 2022, the latest years that Phase 1 of Unit 1 and all of Unit 2 are planned to be completed, respectively.

The assumptions and analysis methodology used to develop each of the future year scenarios discussed above are described in more detail in the following sections.

BACKGROUND OR AMBIENT GROWTH

Based on historic trends, it was established that an ambient growth factor of 2% per year should be applied to adjust the existing base year traffic volumes to reflect the effects of regional growth and development by year 2020 and 2022.

RELATED PROJECT TRAFFIC GENERATION AND ASSIGNMENT

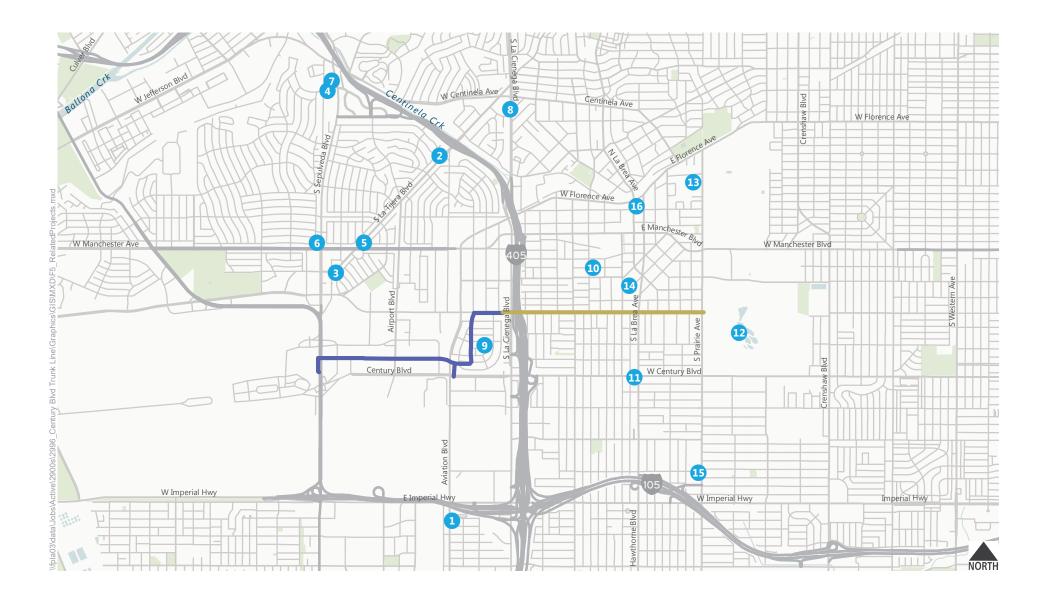
Future Base traffic forecasts include the effects of known specific projects, called related projects, expected to be implemented in the vicinity of the project site prior to the buildout date of the project. The list of related projects was prepared based on data from LADOT and the City of Inglewood, and from a review of recent environmental studies for projects in the area. A total of 16 cumulative projects were identified in the study area. These projects are listed in **Table 10** and illustrated in **Figure 5**.

| TABLE 10 RELATED LAND DEVELOPMENT PROJECTS | | | | | | | | | | | |
|-----------------------------------------------|---------------------------------------------|----------------------|---------|----------|---------------------|-------|-------|-------|-------|-------|-------|
| | Project Location [a] | Land Use | Size | | Trip Generation [b] | | | | | | |
| No. | | | | | Daily | AM PM | | | | | |
| | | | | | | IN | OUT | TOTAL | IN | OUT | TOTAL |
| | 11604 Aviation Blvd | Condominiums | 281 | | 3,491 | 118 | 233 | 352 | 185 | 114 | 299 |
| 1 | | Apartments | 112 | du | | | | | | | |
| | | Retail | 26.500 | ksf | | | | | | | |
| 2 | 7407 S La Tijera Blvd | Apartments | 140 | du | 799 | 10 | 55 | 65 | 57 | 26 | 83 |
| | | Retail | 2.600 | ksf | | | | | | | |
| 3 | 8740 S La Tijera Blvd | Apartments | 137 | du | 508 | -60 | -4 | -64 | 42 | 14 | 56 |
| 4 | 6733 Sepulveda Blvd | Apartments | 176 | du | 628 | -31 | 55 | 24 | 52 | -40 | 12 |
| 5 | 8540 S La Tijera Blvd | Middle School | 350 | students | 868 | 173 | 142 | 315 | 99 | 111 | 210 |
| 6 | 8521 S Sepulveda Blvd | Apartments | 86 | du | 1259 | 23 | 69 | 92 | 84 | 50 | 134 |
| 7 | 6711 S Sepulveda Blvd | Apartments | 180 | du | 1063 | 17 | 70 | 87 | 73 | 37 | 110 |
| 8 | 6855 S La Cienega Blvd | Grocery Store | 22.590 | ksf | 1520 | 25 | 17 | 42 | 74 | 74 | 148 |
| 9 | Los Angeles World Airports LAMP [c] | Construction Project | | • | | 1,203 | 361 | 1,564 | 268 | 1,216 | 1,484 |
| 10 | 240 W Lime St | Senior Housing | 40 | du | 138 | 3 | 5 | 8 | 5 | 5 | 10 |
| 11 | 10001 Hawthorne Blvd | Restaurant | 4.900 | ksf | 1,003 | 33 | 23 | 56 | 37 | 35 | 72 |
| | Inglewood NFL Stadium Hollywood Park [d] | Retail | 620.000 | ksf | 37,158 | 860 | 1,777 | 2,073 | 1,958 | 1,990 | 3,948 |
| 12 | | Casino | 120.000 | ksf | | | | | | | |
| | | Apartments | 2995 | du | | | | | | | |
| | | Civic Use | 800 | students | | | | | | | |
| | | Hotel | 300 | rooms | | | | | | | |
| | | Office | 75.000 | ksf | | | | | | | |
| | | Stadium | | | 1 | | | | | | |
| 13 | 333 N Prairie Ave | Condominiums | 228 | du | 2,171 | 43 | 128 | 171 | 144 | 84 | 228 |
| 14 | 125 East Spruce Avenue | Apartments | | du | 47 | 1 | 3 | 4 | 3 | 2 | 4 |
| 15 | 11111 S Prairie Ave | Hotel | 120 | rooms | 1,003 | 33 | 23 | 56 | 37 | 35 | 72 |
| - | 204 N La Brea Ave | Apartments | 235 | | 6,381 | 258 | 255 | 513 | 339 | 287 | 626 |
| | | Restaurant | 7.440 | | | | | | | | |
| 16 | | Retail | 7.625 | | | | | | | | |
| | | Grocery Store | 28.000 | | | | | | | | |
| | | Coffee Shop | 2.120 | | | | | | | | |
| | | | Total | 58.036 | 2,709 | 3,213 | 5,357 | 3,457 | 4.039 | 7,496 | |

<u>Notes:</u> du = dwelling unit ksf = one thousand square feet

(s) = one thousand square feet
 (a) Related projects list is based on information provided from LADOT in March 2018 and independent research.
 (b) Assumed rates from ITE Trip Generation Manual, 9th Edition (2012), in the absence of information.
 (c) Los Angeles International Airport Landside Access Modernization Program peak year construction trips are included in this related projects list as construction for the project would occur while the Century Trunk Line is being built. Trip generation rates based on information provided in the Los Angeles International Airport Landside Access Modernization Program Draft Environmental Impact Report (2016).

The particular rates based on information provided in the Color Argence and the information report of the particular of vised project at this time





Related Land Development Projects

Figure 5

Trip Generation

Trip generation estimates for the related projects were calculated using a combination of previous study findings, publicly available environmental documentation, and trip generation rates contained in *Trip Generation*, 9th Edition. **Table 10** presents the resulting trip generation estimates for these related projects. These projections are conservative in that they do not in every case account for either the existing uses to be removed or the possible use of non-motorized travel modes (transit, walking, etc.). Traffic mitigation measures associated with the related projects, if any, are also not accounted for in the analysis.

Trip Distribution

The geographic distribution of the traffic generated by the related projects is dependent on several factors. These factors include the type and density of the proposed land uses, the geographic distribution of population from which employees and potential patrons of proposed commercial developments may be drawn, the locations of employment and commercial centers to which residents of residential projects may be drawn, and the location of the projects in relation to the surrounding street system. In cases where the traffic study or environmental document for a related project was available, the trip distribution from that study was used.

Traffic Assignment

Using the estimated trip generation and trip distribution patterns described above, traffic generated by the related projects was assigned to the street network.

TRANSPORTATION INFRASTRUCTURE PROJECTS

Arbor Vitae Street between Aviation Boulevard and La Cienega would be widened to accommodate an additional travel lane in each direction as part of LAWA LAMP. The widening is part of major roadway improvements in Phase 1 of construction, which is scheduled to be finished in approximately 2023. Because it is planned for completion after the construction of the proposed CTL Project, the future year capacity calculations in this study do not include the widening.

The Crenshaw/LAX Transit project will extend light rail transit (LRT) service approximately 8.5 miles south, Metro Expo Line to the Metro Green Line. It will include eight new stations and is planned for completion in 2019. The CTL project alignment would be located below-grade near the Aviation/Century Station. As a separate and subsequent project, LAWA will construct the Airport Metro Connector to link this line with the Central Terminal Area and certain LAWA landside facilities.

FUTURE (2020 AND 2022) TRAFFIC VOLUMES

Future 2020 weekday AM and PM peak hour traffic volumes and lane geometries for the analyzed intersections are provided in **Figure 6**. Future 2022 weekday AM and PM peak hour traffic volumes and lane geometries for the analyzed intersections are provided in **Figure 7**. The future year traffic conditions represent an estimate of future conditions without the proposed project inclusive of the ambient background growth and related projects traffic.



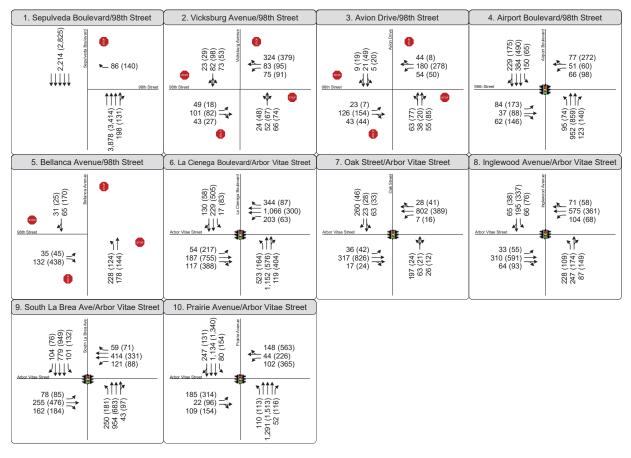




Figure 6 Peak Hour Traffic Volumes and Lane Configurations Future (2020) Conditions



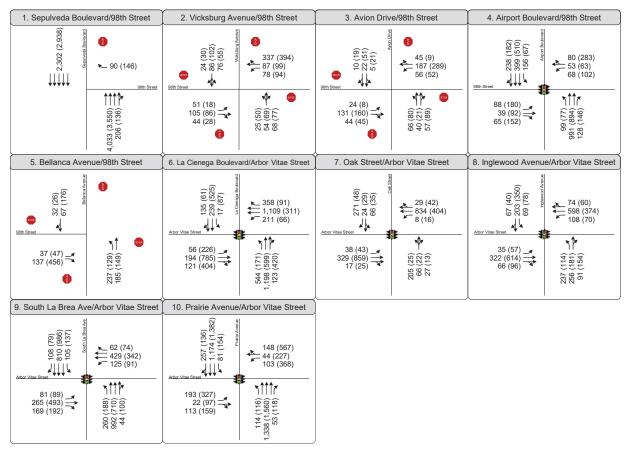




Figure 7 Peak Hour Traffic Volumes and Lane Configurations Future (2022) Conditions



FUTURE (2020 AND 2022) TRAFFIC CONDITIONS

The 2020 and 2022 peak hour traffic volumes shown in **Figure 6** and **Figure 7** were analyzed using the LOS methodologies described in Chapter 2 to project future LOS at the study intersections during the analyzed peak hours. The results of this analysis are summarized in **Table 11** and **Table 12** for the analyzed peak hours. Four of the six signalized intersections analyzed for impacts are projected to operate at LOS D or better during the morning and afternoon peak hours under Future 2020 and 2022 conditions. The intersection at La Cienega Boulevard & Arbor Vitae Street is projected to operate at LOS E during the PM peak period. All of the unsignalized intersections are projected to operate at LOS C or better during both peak hours under Future 2020 and 2022 conditions are provided in **Appendix B**.

The 2020 and 2022 peak hour street segment volumes were analyzed using the LOS methodologies described in Chapter 2 to project future segment LOS at the 10 segments during the analyzed peak hours. The results of this analysis are summarized in **Table 13** and **Table 14** for the analyzed peak hours. The peaking and directional trends of the projected traffic volumes on 98th Street and on Arbor Vitae Street are similar to what is found under existing conditions.

| | TA FUTURE (2020) INTERS | BLE 11 ECTION LEVELS OF | SERVICE | |
|-----|----------------------------------------------|----------------------------|-----------------|----------|
| | | | FUTUR | E (2020) |
| NO. | INTERSECTION | PEAK HOUR | V/C or Delay | LOS |
| 1 | Sepulveda Blvd & | AM | 10.7 | B |
| | 98th Street | PM | 10.8 | B |
| 2 | Vicksburg Avenue & | AM | 13.8 | B |
| | 98th Street | PM | 17.3 | C |
| 3 | Avion Drive & | AM | 9.9 | A |
| | 98th Street | PM | 11.8 | B |
| 4 | Airport Boulevard & | AM | 0.459 | A |
| | 98th Street | PM | 0.567 | A |
| 5 | Bellanca Avenue & | AM | 10.6 | B |
| | 98th Street | PM | 18.5 | C |
| 6 | La Cienega Boulevard & Arbor Vitae Street | AM PM | 0.906 | E |
| 7 | Oak Street & | AM | 0.712 | C |
| | Arbor Vitae Street | PM | 0.450 | A |
| 8 | Inglewood Avenue & | AM | 0.695 | B |
| | Arbor Vitae Street | PM | 0.793 | C |
| 9 | South La Brea Avenue & | AM | 0.653 | B |
| | Arbor Vitae Street | PM | 0.764 | C |
| 10 | Prairie Avenue & | AM | 0.693 | B |
| | Arbor Vitae Street | PM | 1.200 | F |

| | TAB FUTURE (2022) INTERSEC | LE 12 CTION LEVELS (| OF SERVICE | |
|-----|-------------------------------|-------------------------|--------------|--------|
| NO. | INTERSECTION | PEAK | FUTURE | (2022) |
| NO. | INTERSECTION | HOUR | V/C or Delay | LOS |
| 1 | Sepulveda Blvd & | AM | 11.4 | В |
| | 98th Street | PM | 11.5 | В |
| 2 | Vicksburg Avenue & | AM | 14.8 | В |
| | 98th Street | PM | 19.2 | С |
| 3 | Avion Drive & | AM | 10.1 | В |
| | 98th Street | PM | 12.2 | В |
| 4 | Airport Boulevard & | AM | 0.482 | А |
| | 98th Street | PM | 0.593 | A |
| 5 | Bellanca Avenue & | AM | 10.9 | В |
| | 98th Street | PM | 20.5 | С |
| 6 | La Cienega Boulevard & | AM | 0.939 | E |
| | Arbor Vitae Street | PM | 0.885 | D |
| 7 | Oak Street & | AM | 0.738 | С |
| | Arbor Vitae Street | PM | 0.464 | А |
| 8 | Inglewood Avenue & | AM | 0.718 | С |
| | Arbor Vitae Street | PM | 0.819 | D |
| 9 | South La Brea Avenue & | AM | 0.676 | В |
| | Arbor Vitae Street | PM | 0.788 | С |
| 10 | Prairie Avenue & | AM | 0.710 | С |
| | Arbor Vitae Street | PM | 1.221 | F |

| | | | | FUTURE | (2020) ST | UDY ROA | TABLE DWAY SEGMEN | | IES AND LEV | /ELS OF S | ERVICE | | | | | | | | |
|--------------------------------------------------------|--------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|----------------------|----------|-------------|-----------|----------|---------|-------|-----------|---------|----------|----------|---------|-------|
| | | FUTURE (| 2020) TR/ | AFFIC VOL | UMES [a] | | EXIS | TING ROA | DWAY CAP | ACITY [b] | I | | FUT | JRE (2020 |) ROAD | NAY LEVE | L OF SER | VICE | |
| | | NB/EB | | | SB/WB | | | N | 3/EB | C.P. | /WB | | NB | /EB | | | SB/ | WB | |
| l | | | | | | | Roadway | INI | D/ED | 30 | / VV D | Highest | AM Hr | Highest | t PM Hr | Highest | AM Hr | Highest | PM Hr |
| Location | Daily | Highest AM Hour | Highest PM Hour | Daily | Highest AM Hour | Highest PM Hour | Classification | Lanes | Capacity | Lanes | Capacity | v/c | LOS | v/c | LOS | v/c | LOS | v/c | LOS |
| Unit 1 | | | | | | | | | | | | | | | | | | | |
| 1 Sepulveda Boulevard b/w World Way and 98th Street | 57,847 | 4,425 | 3,583 | 32,323 | 2,237 | 2,826 | Class I | 4 | 4,000 | 5 | 5,000 | 1.106 | F | 0.896 | D | 0.447 | A | 0.565 | A |
| 2 98th Street east of Sepulveda Boulevard | 3,088 | 228 | 195 | 1,666 | 148 | 144 | Collector | 1 | 600 | 1 | 600 | 0.380 | A | 0.324 | A | 0.246 | A | 0.239 | A |
| 3 98th Street east of Vicksburg Avenue | 3,467 | 239 | 221 | 8,214 | 571 | 588 | Collector | 1 | 600 | 1 | 600 | 0.399 | A | 0.368 | A | 0.952 | E | 0.980 | E |
| 4 98th Street east of Avion Drive | 3,676 | 227 | 293 | 4,942 | 287 | 330 | Collector | 1 | 600 | 1 | 600 | 0.378 | А | 0.489 | А | 0.479 | А | 0.550 | А |
| 5 98th Street east of Airport Boulevard | 3,370 | 203 | 318 | 3,312 | 268 | 215 | Collector | 1 | 600 | 1 | 600 | 0.338 | А | 0.531 | А | 0.447 | А | 0.359 | A |
| Unit 2 | | | | | | | - | | | | | р. | | | | | | | |
| 6 Arbor Vitae Street west of La Cienega Boulevard | 13,724 | 825 | 1,443 | 13,272 | 1,761 | 731 | Class II | 2 | 1,600 | 2 | 1,600 | 0.516 | A | 0.902 | E | 1.101 | F | 0.457 | А |
| 7 Arbor Vitae Street east of Oak Street | 9,862 | 537 | 859 | 9,459 | 970 | 564 | Secondary | 1 | 700 | 1 | 700 | 0.767 | С | 1.228 | F | 1.386 | F | 0.806 | D |
| 8 Arbor Vitae Street east of Inglewood Avenue | 10,154 | 539 | 846 | 8,836 | 773 | 566 | Secondary | 1 | 700 | 1 | 700 | 0.770 | С | 1.208 | F | 1.105 | F | 0.808 | D |
| 9 Arbor Vitae Street west of La Brea Avenue | 8,902 | 499 | 742 | 8,956 | 755 | 573 | Secondary | 1 | 700 | 1 | 700 | 0.713 | С | 1.060 | F | 1.078 | F | 0.819 | D |
| 10 Arbor Vitae Street west of Prairie Avenue | 6,328 | 348 | 724 | 5,736 | 403 | 374 | Collector | 1 | 600 | 1 | 600 | 0.579 | А | 1.206 | F | 0.672 | В | 0.624 | В |

 [a] AM and PM volumes are the highest one-hour volumes over each 12-hour period. Therefore these segment volumes may differ from the AM/PM peak hour volumes at analyzed intersections, which are the highest one-hour volumes during the defined peak periods.

 [b] Athough Arbor Vitae Street is functionally classified as a Major Arterial, this analysis conservatively treats it as a collector street (segment 10), as a Secondary Arterial (segments 7, 8 and 9) and as a Major Highway Class II (segment 6) to reflect its current characteristics.

 Class II = 800 vehicles per lane per hour
 Secondary = 700 vehicles per lane per hour

 Class II = 800 vehicles per lane per hour
 Collector = 600 vehicles per lane per hour

| | | | | FUTURE | (2022) ST | UDY ROA | TABLE ADWAY SEGMEN | | IES AND LE | VELS OF S | ERVICE | | | | | | | | |
|----------------------------------------------------------------|-----------------|-----------------------|-----------------------|--------------|-----------------------|-----------------------|-----------------------|--------------|----------------|---------------|-----------------|--------------|------------|--------------|--------------|--------------|----------|---------|-------|
| | | FUTURE (2 | 2022) TR/ | AFFIC VOL | UMES [a] | | EXIS | TING RO | ADWAY CAP | ACITY [b] |] | | FUT | URE (202 | 2) ROAD | WAY LEVE | L OF SEF | VICE | |
| | | NB/EB | | | SB/WB | | | N | B/EB | 6.0 | /WB | | NB | /EB | | | SB/ | WB | |
| | | | | | | | Roadway | IN | 5/ED | 36 | / VV D | Highest | t AM Hr | Highes | t PM Hr | Highest | : AM Hr | Highest | PM Hr |
| Location | Daily | Highest AM Hour | Highest PM Hour | Daily | Highest AM Hour | Highest PM Hour | Classification | Lanes | Capacity | Lanes | Capacity | v/c | LOS | V/C | LOS | v/c | LOS | v/c | LOS |
| Unit 1 | | | | | | | | | | | | | | | | | | | |
| 1 Sepulveda Boulevard | 60,162 | 4,603 | 3,726 | 33,607 | 2,326 | 2,939 | Class I | 4 | 4,000 | 5 | 5,000 | 1.151 | F | 0.932 | E | 0.465 | А | 0.588 | А |
| b/w World Way and 98th Street | | | | | | | | | | | | | | | | | | | |
| 2 98th Street | 3,213 | 237 | 202 | 1,733 | 154 | 149 | Collector | 1 | 600 | 1 | 600 | 0.395 | А | 0.337 | А | 0.256 | А | 0.249 | А |
| east of Sepulveda Boulevard | | | | | | | | | | | | | | | | | | | |
| 3 98th Street | 3,607 | 249 | 229 | 8,546 | 594 | 612 | Collector | 1 | 600 | 1 | 600 | 0.415 | A | 0.382 | А | 0.990 | E | 1.019 | F |
| east of Vicksburg Avenue | | | | | | | | | | | | | | | | | | | |
| 4 98th Street | 3,824 | 236 | 305 | 5,142 | 299 | 343 | Collector | 1 | 600 | 1 | 600 | 0.393 | A | 0.509 | А | 0.498 | Α | 0.572 | A |
| east of Avion Drive | | | | | | | | | | | | | | | | | | | |
| 5 98th Street | 3,506 | 211 | 331 | 3,445 | 279 | 224 | Collector | 1 | 600 | 1 | 600 | 0.352 | A | 0.552 | A | 0.465 | A | 0.373 | A |
| east of Airport Boulevard | | | | | | | | | | | | | | | | | | | |
| Unit 2 | | | | 10.000 | | | | | | | | 0.700 | | | | | | | |
| 6 Arbor Vitae Street | 14,271 | 862 | 1,496 | 13,802 | 1,828 | 764 | Class II | 2 | 1,600 | 2 | 1,600 | 0.539 | A | 0.935 | E | 1.143 | F | 0.478 | A |
| west of La Cienega Boulevard | 10.050 | 560 | | 0.000 | 1 005 | 500 | | | 700 | | 700 | 0.000 | | 1.070 | - | 1.426 | F | 0.040 | |
| 7 Arbor Vitae Street east of Oak Street | 10,253 | 562 | 889 | 9,836 | 1,005 | 590 | Secondary | 1 | 700 | 1 | 700 | 0.803 | D | 1.270 | F | 1.436 | F | 0.843 | D |
| 8 Arbor Vitae Street | 10.547 | 548 | 884 | 9,173 | 815 | 580 | Secondary | 1 | 700 | 1 | 700 | 0.783 | C | 1.263 | F | 1.164 | F | 0.829 | D |
| east of Inglewood Avenue | 10,547 | 546 | 004 | 9,175 | 010 | 200 | Secondary | 1 | 700 | 1 | 700 | 0.765 | C | 1.205 | F | 1.104 | r | 0.829 | D |
| 9 Arbor Vitae Street | 9,244 | 506 | 775 | 9,297 | 796 | 589 | Secondary | 1 | 700 | 1 | 700 | 0.723 | C | 1.107 | F | 1.138 | F | 0.841 | D |
| west of La Brea Avenue | 5,244 | 500 | | 5,251 | 7.50 | 202 | Secondary | - | 700 | - | 700 | 0.725 | C | 1.107 | | 1.150 | | 0.041 | D |
| 10 Arbor Vitae Street | 6,551 | 343 | 610 | 5,904 | 436 | 518 | Collector | 1 | 600 | 1 | 600 | 0.571 | А | 1.017 | F | 0.726 | C | 0.863 | D |
| west of Prairie Avenue | 0,001 | 5.5 | 010 | 5,504 | | 510 | concetor | - | | - | 000 | 0.07 1 | | 1.01/ | | 0.720 | 5 | 0.005 | 5 |
| Notes: [a] AM and PM volumes are the highest one-hour volum | nes over each 1 | L2-hour perio | od. Therefor | e these segm | ent volumes | may differ | from the AM/PM pe | ak hour volu | mes at analyze | d intersectio | ns, which are t | he highest o | ne-hour vo | olumes durir | ig the defin | ed peak peri | ods. | 1 | |

 [a] AM and PM volumes are the highest one-hour volumes over each 12-hour period. Therefore these segment volumes may differ from the AM/PM peak hour volumes at analyzed intersections, which are the highest one-hour volumes during the defined peak periods.

 [b] Athough Arbor Vitae Street is functionally classified as a Major Arterial, this analysis conservatively treats it as a collector street (segment 10), as a Secondary Arterial (segments 7, 8 and 9) and as a Major Highway Class II (segment 6) to reflect its current characteristics.

 Class II = 800 vehicles per lane per hour
 Secondary = 700 vehicles per lane per hour

 Class II = 800 vehicles per lane per hour
 Collector = 600 vehicles per lane per hour

4. CONSTRUCTION PERIOD IMPACT ANALYSIS

IN-STREET CONSTRUCTION IMPACT CRITERIA

LADOT generally considers construction-related traffic to cause adverse but less than significant impacts because, while sometimes inconvenient, construction-related traffic effects are temporary. LADOT requires implementation of worksite traffic control plans to ensure that any construction-related effects are minimized to the greatest extent possible.

The LA CEQA Thresholds Guide provides four categories to be considered in regards to in-street construction impacts: temporary traffic impacts, temporary loss of access, temporary loss of bus stops or rerouting of bus lines, and temporary loss of on-street parking (*LA CEQA Threshold Guide*, pages L.8-2 through L.8-4). The factors to be considered in each of these categories, as established in the *LA CEQA Threshold Guide*, are as follows:

- Temporary Traffic Impacts:
 - The length of time of temporary street closures or closures of two or more traffic lanes;
 - The classification of the street (major arterial, state highway) affected;
 - The existing traffic levels and LOS on the affected street segments and intersections;
 - Whether the affected street directly leads to a freeway on- or off-ramp or other state highway;
 - o Potential safety issues involved with street or lane closures;
 - The presence of emergency services (fire, hospital, etc.) located nearby that regularly use the affected street.
- Temporary Loss of Access:
 - The length of time of any loss of vehicular or pedestrian access to a parcel fronting the construction area;
 - o The availability of alternative vehicular or pedestrian access within 1/4 mile of the lost access;
 - The type of land uses affected, and related safety, convenience, and/or economic issues.
- Temporary Loss of Bus Stops or Rerouting of Bus Lines:
 - The length of time that an existing bus stop would be unavailable or that existing service would be interrupted;
 - The availability of a nearby location (within ¼ mile) to which the bus stop or route can be temporarily relocated;
 - The existence of other bus stops or routes with similar routes/destinations within a ¹/₄ mile radius of the affected stops or routes;
 - Whether the interruption would occur on a weekday, weekend or holiday, and whether the existing bus route typically provides service that/those day(s).
- Temporary Loss of On-Street Parking:
 - The current utilization of existing on-street parking;
 - The availability of alternative parking locations or public transit options (e.g. bus, train) within 1/4 mile of the project site;
 - The length of time that existing parking spaces would be unavailable.



Per the guide, determination of significance is made on a case-by-case basis. The factors should be evaluated to determine if construction activities could create a potential inconvenience in the performance of one's daily activities (e.g., an impact on traffic operations) and/or a concern to public safety. Recent environmental studies prepared for projects in the City of Inglewood were reviewed to determine how temporary construction-period impacts are assessed and were found to be similar to those of the City of Los Angeles.

Section 41.40 of the Los Angeles Municipal Code (LAMC) limits construction activities for Unit 1 (in the City of Los Angeles) to the hours from 7:00 AM to 9:00 PM on weekdays and from 8:00 AM to 6:00 PM on Saturdays, with no construction permitted on Sundays or holidays. The City of Inglewood allows construction activities to occur between 7:00 AM and 8:00 PM, which would apply to Unit 2.

CONSTRUCTION IMPACT ASSESSMENT

The LA CEQA Thresholds Guide provides four categories to be considered in regards to in-street construction impacts: temporary traffic impacts, temporary loss of access, temporary loss of bus stops or rerouting of bus lines, and temporary loss of on-street parking (LA CEQA Threshold Guide, pages L.8-2 through L.8-4). The factors to be considered in each of these categories, and the assessment of the project against these factors, is discussed below and summarized in **Table 15**. Because the proposed project would only affect traffic operations in the vicinity during the period when it is under construction, the impacts are considered to be adverse but not significant. The project would be constructed in phases over a period of three to four years, rather than all at once, and the duration of the impacts discussed below at any given location would be up to three to six months.

TEMPORARY TRAFFIC IMPACTS

As described earlier, final plans for the proposed project have not yet been prepared and it is not known with certainty where the new water pipeline would be located within the rights-of-way of 98th Street and Arbor Vitae Street. Conceptual plans that have been developed for Unit 1 are presented in **Appendix C**. These plans indicate that the pipeline would be located near the center of 98th Street between Sepulveda Boulevard and Vicksburg Avenue, and close to the southern edge of the roadway east of Vicksburg Avenue. The location of the pipeline within Arbor Vitae Street is not yet known.

Construction of nearly all of Phases 2 and 3 of Unit 1 would occur off-street on land owned by the City of Los Angeles (LAWA) and would not be expected to result in substantial changes to traffic conditions on the surrounding street network. Where the alignment of Phase 3, Unit 1 lies within Arbor Vitae Street, it is anticipated that most of it would be located within the existing south frontage road. The easternmost segment of Phase 3, Unit 1 will be closer to center of Arbor Vitae Street, where the connection with Unit 2 would be located. As part of the Landside Access Modernization Program, LAWA will widen and improve the segment of Arbor Vitae Street where the proposed project lies (west of La Cienega Boulevard) and the final roadway improvements will be made after the pipeline has been constructed.

| CONS | TABLE 15 STRUCTION IMPACT SIGNIFICANCE FACTORS | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Significance Factor | Assessment | Conclusion |
| er the LA CEQA Thresholds Guide , the determination of significan | ce shall be made on a case-by-case basis, considering the following facto | rs: |
| emporary Traffic Impacts: | | |
| The length of time of temporary street closures or closures of two or more traffic lanes; | • Temporary street closures or closures of two or more traffic lanes are not anticipated on 98th Street or on the majority of Arbor Vitae Street. Each street has one travel lane in each direction, except Arbor Vitae Street west of 1-405 where there are two lanes in each direction. If it necessary to close two lanes of Arbor Vitae Street near the connection between Unit 1 and Unit 2, one lane would be maintained in each direction. On-street parking will be removed and travel lanes will be narrowed to maintain one travel lane each direction, where possible. One-way traffic operation will be required where roadway width is limited. | |
| The classification of the street (major arterial, state highway) affected; | The streets affected are classified as a Collector Street, an Avenue I, an Avenue I Modified and a Major Arterial. | Less than Significant with Mitigation. |
| The existing traffic levels and level of service (LOS) on the affected street segments and intersections; | All study intersections on 98th Street and Arbor Vitae Street operate at LOS D or better. Forecast LOS is E or F at 2 intersections. | |
| Whether the affected street directly leads to a freeway on- or off- ramp or other state highway; Potential safety issues involved with street or lane closures; | None of the affected streets directly lead to a freeway on- or off-ramp or other state highways. Worksite traffic control plans would be prepared in accordance with applicable City and MUTCD guidelines. | |
| The presence of emergency services (fire, hospital, etc.) located | Emergency services are located within the immediate vicinity of the | |
| nearby that regularly use the affected street. emporary Loss of Access: | affected streets. | 1 |
| The length of time of any loss of vehicular or pedestrian access to a parcel fronting the construction area; | Blockage of vehicular access to parcels fronting the construction area is anticipated. Vehicular access may be restricted to right-in/right-out or left-in/left-out, depending on the direction of one-way that is established where necessary. Work would occur during weekdays for three to four months at any given location. Pedestrian access will be maintained on both sides of each street to the greatest extent possible. Temporary closures of portions of the sidewalk will be made only where necessary to maintain pedestrian safety and with the concurrence of LADOT or the City of Inglewood. | |
| • The availability of alternative vehicular or pedestrian access within ¼ mile of the lost access; | Most businesses along 98th Street and Arbor Vitae Street have multiple driveways and/or additional access on adjacent streets or through adjacent properties. Access may be restricted to right-in/right-out or left-in/left-out, resulting in around-the-block travel. For businesses and residents with only one driveway onto the street where construction is planned, vehicular access may be unavailable during the day for periods within the 3-4 months of construction on each segment. | Less than Significant with Mitigation. |
| The type of land uses affected, and related safety, convenience, and/or economic issues. | Land uses on 98th Street are exclusively commercial (offices, hotels, retail and public parking lots). Land uses on Arbor Vitae are a mix of commercial, residential, educational and religious. All rely heavily on vehicular access. Maintaining access will be very important. | |
| emporary Loss of Bus Stops or Rerouting of Bus Lines: | | |
| The length of time that an existing bus stop would be unavailable or that existing service would be interrupted; The availability of a nearby location (within ¼ mile) to which the bus stop or route can be temporarily relocated; The existence of other bus stops or routes with similar routes/ destinations within a ¼mile radius of the affected stops or routes; Whether the interruption would occur on a weekday, weekend or holiday, and whether the existing bus route typically provides service that/those day(s). | Bus stops on Metro Line 111 on Arbor Vitae Street at Hindry, La Cienega, Oak, Inglewood, Eucalyptus, Grevillea, La Brea, and Prairie would need to be relocated or consolidated as construction proceeds through Unit 2. | Less than Significant with Mitigation. |
| emporary Loss of Un-Street Parking: | | |
| The current utilization of existing on-street parking; The availability of alternative parking locations or public transit options (e.g. bus, train) within ¼ mile of the project site; | 98th Street and Arbor Vitae Street currently have existing on-street parking on both sides of the street, utilized throughout the day. Paid parking lots are available along 98th Street. On-street parking is available on cross streets along Arbor Vitae Street. Public transit options are available within 1/4 mile of 98th Street on Century Boulevard. Public transit options are available within 1/4 mile of Arbor Vitae Street on Inglewood Avenue, La Brea Avenue and Prairie Avenue. | Less than Significant. |
| The length of time that existing parking spaces would be unavailable. | Project construction will temporarily remove existing on-street parking to maximize the portion of the streets available to traffic. Because the project would be constructed in phases, duration of the loss of parking at any given location would be up to three to six months. | |

Construction of Phase 1 of Unit 1 would occur within 98th Street, a Collector street that provides one lane in each direction. Construction of Phase 3 would occur within Arbor Vitae Street, a Major Arterial street that provides one lane in each direction east of I-405 and two lanes in each direction west of I-405. Complete road closures are not anticipated on 98th Street or Arbor Vitae. Closures of two or more traffic lanes are not anticipated on Arbor Vitae Street and 98th Street, although one-way traffic along 98th street may be required if there is not sufficient width to accommodate two-way traffic. Open trenches would be approximately 500 feet long within work areas of approximately 1,200 feet. Given the volume of traffic carried by Sepulveda Boulevard, Century Boulevard, and Prairie Avenue, Caltrans, LADOT, and City of Inglewood Public Works may not allow construction on these streets during peak periods and may require closures on these streets occur at night.

Three system connections are planned as part of Phase 1 of Unit 1, and Unit 2. These connections would cross Sepulveda Boulevard (a state highway, classified by the City of Los Angeles as a Boulevard I) at 98th Street, the westbound (northern) side of Century Boulevard (Boulevard I Modified) east of Aviation Boulevard and Prairie Avenue (Major Arterial) at Arbor Vitae Street. When these system connections are constructed to tie into other existing trunk lines in the area, closure of more than one traffic lane may be required to implement the project. Given the volume of traffic carried by Sepulveda Boulevard, Century Boulevard and Prairie Avenue, Caltrans, LADOT and Inglewood Public Works may not allow construction within these streets during peak periods.

If insufficient street width is available to safely maintain one travel lane in both directions on 98th Street (Unit 1, Phase 1) and on Arbor Vitae Street (Unit 2), it will be necessary to restrict traffic flow to one-way operation. To the extent feasible, 2-way traffic would be maintained by temporarily restricting on-street parking, and using the smallest equipment feasible to minimize the width of the work area within the street. If it becomes necessary to limit travel on these streets to 1-way operation, formal detour plans will be developed to accommodate diverted traffic. Even with the maintenance of the existing travel lane in each direction on these streets, some traffic can be expected to divert to nearby parallel routes resulting in increased congestion and delay there during the construction period. While it would be speculative to estimate the specific volume of traffic that would shift to each parallel street, potentially affected routes can be identified. In the vicinity of 98th Street, potentially affected streets are Century Boulevard and 96th Street. In the vicinity of Arbor Vitae Street, potentially affected streets to the north are Manchester Boulevard, Hillcrest Boulevard, Buckthorn Street, La Palma Drive, and Kelso Street. Potentially affected streets to the south of Arbor Vitae Street are Century Boulevard, Hardy Street, 95th Street and 94th Street. **Table 13** and **Table 14** and **Figure 6** and **Figure 7** show estimates of the future 2020 and 2022 volumes that would be affected.

There are no emergency service providers located adjacent to Unit 1 in Los Angeles. Centinela Hospital is located south of Arbor Vitae Street near the eastern end of Unit 2. This major hospital provides inpatient and outpatient services, including emergency services. While the hospital is oriented toward Hardy Street (its southern boundary), given its proximity to Arbor Vitae Street, construction of Unit 2 of the project can be expected to affect emergency service vehicles that use Arbor Vitae Street.

The proposed project would be conducted in accordance with the Standard Specifications for Public Works Construction (Greenbook), the City of Los Angeles Work Area Traffic Control Handbook (WATCH), and the California Manual on Uniform Traffic Control Devices (CAMUTCD) to maintain acceptable traffic flows, safety, local access and emergency access during construction. The Traffic Control Plans for the project would require approval by LADOT, the City of Inglewood Public Works and Caltrans.



TEMPORARY LOSS OF ACCESS

Vehicular access to adjacent properties will be maintained where possible. Vehicular access to the businesses and residences along the affected segments of 98th Street and Arbor Vitae Street will still be maintained but may be reduced to right-turn in/right-turn out or left-turn in/left-turn out (depending on direction of traffic) for up to three to four months while construction occurs directly adjacent to driveways. Most businesses with driveways located on 98th Street or on Arbor Vitae Street have more than one driveway on that street or on an adjoining street, or can be accessed through an adjoining parcel. Field observations indicate that some businesses and most residences on these streets, however, have only one driveway on 98th Street. The placement of the pipeline within the street rights-of-way and the size of the construction of specific impacts to local access. Construction techniques, such as covering of trenches with steel plates, should be used to minimize the time when any driveways are unusable. Where a property has more than one driveway on 98th Street or on Arbor Vitae Street, at least one driveway should be unobstructed and usable at all times.

Pedestrian access to properties located near the project site will be open for the duration of construction to the greatest extent possible. Depending on the final placement of the pipeline within the street rightsof-way, protective fencing or K-rail may be placed at the edge of a sidewalk, and it would narrowed while work occurs within the adjacent street segment. In order to maintain pedestrian safety, temporary closure of portions of the sidewalk may be necessary. All worksite traffic control plans will be subject to approval by LADOT and the City of Inglewood. In-street construction will be done in work segments of approximately 1,200 feet, which would restrict the ability of pedestrians to cross 98th Street or Arbor Vitae Street. Pedestrians will be able to walk to the end of a given work area and cross the street there. Crossing guards may be necessary before and after school hours to assist children in crossing Arbor Vitae Street in the vicinity of local schools such as Payne Elementary School and Century Community Charter School.

TEMPORARY LOSS OF BUS STOPS OR REROUTING OF BUS LINES

There are no active bus stops directly on 98th Street in the vicinity of Unit 1. There are inactive bus stops on Bellanca Avenue near 98th Street for the Big Blue Bus Line 3/Rapid 3 where service may be resumed after a long-term service adjustment during construction of the Metro Crenshaw/LAX Line. There are no stops for north-south bus lines located adjacent to 98th Street in the vicinity of Unit 1.

Bus stops for Metro Line 111 are located on Arbor Vitae Street in the vicinity of Unit 2 at Hindry Avenue/Place, La Cienega Boulevard, Oak Street, Inglewood Avenue, Eucalyptus Avenue, Grevillea Avenue, La Brea Avenue, and Prairie Avenue. Bus stops for north-south bus lines are located adjacent to Arbor Vitae Street at Inglewood Avenue, La Brea Avenue and Prairie Avenue.

During construction of Unit 2, slower travel times for bus operations on Arbor Vitae would be expected and, as construction on each segment progresses, bus stops would need to be relocated. Because the project will be constructed in sections of approximately 1,200 feet, bus stops would have to be relocated less than one-quarter mile east or west to the nearest appropriate location. Each work segment would be under construction for approximately three to four months, which is the expected duration of temporary relocation of any particular bus stop. Metro and other transit operators have developed standard practices for temporarily adjusting bus stop locations and informing riders of these changes.



TEMPORARY LOSS OF ON-STREET PARKING

It is expected that on-street parking along 98th Street and Arbor Vitae Street would be removed temporarily to maintain traffic flow in the areas adjoining active work sites. Observations show that on-street parking on 98th Street is well-used and that on-street parking on Arbor Vitae Street is moderately used. **Table 2** and **Table 3** shows the approximate number of on-street parking spaces that would be removed during construction. The project would be constructed in phases over a period of three to four years, rather than all at once, and the duration of the impacts discussed below at any given location would be up to three to four months. Much of the land in the immediate vicinity of Phase 1, Unit 1 is devoted to paid public parking, given its proximity to Los Angeles International Airport. Unit 2 is located in a mixed-use corridor, with commercial, educational religious and residential uses, and on-street parking is allowed on nearly all streets in the surrounding area. As such, temporary parking impacts would be less than significant.

CONSTRUCTION TRAFFIC MANAGEMENT PLAN

Proposed mitigation consists of the following measures to reduce the temporary adverse impacts associated with construction-period activity. The implementation of the following mitigation measures would reduce the project traffic/transportation impacts to a less than significant level.

An overall construction traffic management plan (TMP) shall be prepared and submitted to LADOT and the City of Inglewood Department of Public Works for review and approval prior to the start of any construction work. It may be appropriate to develop separate TMPs for Unit 1 and Unit 2, as the sites lie in different jurisdictions. The plan should be regularly reviewed to ensure that all recommendations are implemented, as appropriate, and that it is updated with new information if any should become available.

As design plans for the project are finalized, LADWP should coordinate with LAWA, LADOT's Western District Office, the local City Council Office and the City of Inglewood Department of Public Works to present the plans and a draft TMP, obtain input on preferred traffic management techniques (in instances where options are available), and obtain input on the planned methods of distributing information to the affected communities. The TMP shall meet the requirements of each jurisdiction and include such elements as those listed below.

- Work site traffic control plans for all in-street construction sites to the satisfaction of LADOT and City of Inglewood Public Works, as appropriate prior to the start of any construction work. The plans shall include such elements as the location of any lane closures, restricted hours during which lane closures would not be allowed, local traffic detours, protective devices and traffic controls (such as pavement markings, barricades, cones, flagmen, lights, warning beacons, temporary traffic signals, turning movement restrictions, warning signs), access to abutting properties, and provisions to maintain emergency access through construction work areas.
- All plans should conform to the Standard Specifications for Public Works Construction (Greenbook), the latest edition of the Work Area Traffic Control Handbook (WATCH), the California Manual on Uniform Traffic Control Devices (CAMUTCD), and any other requirements of LADOT and City of Inglewood Public Works.
- The dates and locations where in-street and off-street construction activities are planned.



- Time of day restrictions for all construction activities.
- Any travel time limitations for construction traffic, including trucks.
- Prepare detour plans over parallel routes (if any street segments will be limited to one-way traffic).
- Ensure that minimum requirements of each city for emergency access are met.
- Signage indicating alternative routes to those where construction will occur.
- Consolidate truck trips, such that multiple worksites can be served, as feasible.
- Identify and consolidate staging areas for equipment and materials as feasible.
- Use the smallest equipment as feasible to minimize the width of the in-street work area in order to maximize the roadway available for motorists.
- Fully utilize available street space to minimize lane reductions on affected streets, including elimination of on-street parking where necessary. Only eliminate travel lanes when absolutely necessary.
- Promote carpooling among workers.
- Coordinate with public transit providers to provide advance notice of any lane closures, construction hours and, where necessary, to identify sites for temporarily relocated or consolidated bus stops within a reasonable walking distance of any displaced bus stops.
- Contact emergency service providers in the vicinity (Los Angeles Police Department, Los Angeles Fire Department, Inglewood Police Department, Inglewood Fire Department, private ambulance services) of the location, hours and duration of in-street construction. Provide advance notice of any lane closures and changes to local access and identify alternative routes where appropriate.
- Prepare a public information plan to provide advance notice of the planned construction activities to affected residents, businesses, schools, and property owners in the vicinity of each construction site. Where existing property access will be reduced, identify alternative means of access.
- Provide signage indicating alternative pedestrian routes where existing facilities that cross 98th Street or Arbor Vitae Street would be affected. Maintain pedestrian access to Payne Elementary School and Century Community Charter School on Arbor Vitae Street.



5. SUMMARY AND CONCLUSIONS

Fehr & Peers conducted a transportation impact analysis for the proposed Century Trunk Line to assess potential transportation-related impacts that could result from construction of a replacement water line in portions of Los Angeles and Inglewood. The key findings and conclusions are summarized below:

- The proposed project is the replacement of an aging, failing 36-inch water main line that runs beneath Century Boulevard between Sepulveda Boulevard and Prairie Avenue with a new 48-inch water line on a parallel route. The existing line would be abandoned in place upon completion of the replacement, which would run beneath the existing 98th Street, a future eastward extension of 98th Street and the future Concourse Way, and Arbor Vitae Street. Three new 24-inch system connections are included as part of the project. The overall length of the proposed facility would be approximately 19,180 feet. The project is composed of two units. Unit 1 lies in Los Angeles and is planned for construction between September 2018 and June 2020. Unit 2 lies in Inglewood and is planned for construction between June 2020 and June 2022. Construction would occur on weekdays between 7:00 AM and 6:00 PM, and may occur at night or overnight if necessary.
- The project would be constructed with a combination of cut-and-cover and pipe jacking techniques. Work sites would be up to approximately 1,200 feet long with approximately 500 feet of open trench at one time. Each site would require up to 12 construction workers each day and as many as 14 truck one-way trips each day, This will result in the temporary addition of up to 52 trips per day (a combination of workers and trucks) for each active work site. It is anticipated that up to five work sites would be in active construction at the peak time, in 2020. Relatively few peak period trips are expected, as most employees would travel before or after the peak periods and truck trips can be assumed to be spread through the day.
- Detailed AM and PM peak hour level of service analysis was conducted for 10 intersections along the project alignment. All are currently operating at LOS D or better. Future traffic projections were made for Year 2020 and Year 2022, the farthest horizon year for work in Unit 1 and Unit 2 respectively. With the overlap of work on each unit in 2020, that is expected to be the peak year for construction of this project. In the future, two of the 10 analyzed intersections are projected to operate at poor LOS (LOS E or F).
- By its nature, the proposed project would result in only temporary traffic impacts. Upon completion, the project will generate few or no trips on a routine basis, relative to the facility that would be replaced. Temporary traffic impacts, and impacts related to loss of access, impacts to transit and impacts to parking were assessed relative to the LA CEQA Thresholds Guide and found to be less than significant following mitigation. Traffic management plans were identified as appropriate to mitigate the identified temporary impacts, and substantial detail was given on elements that these plans should contain.



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Initial Study and Mitigated Negative Declaration for the Hilton TRU Hotel, Terry A. Hayes Associates, February 2018.

LA CEQA Thresholds Guide, City of Los Angeles, 2006.

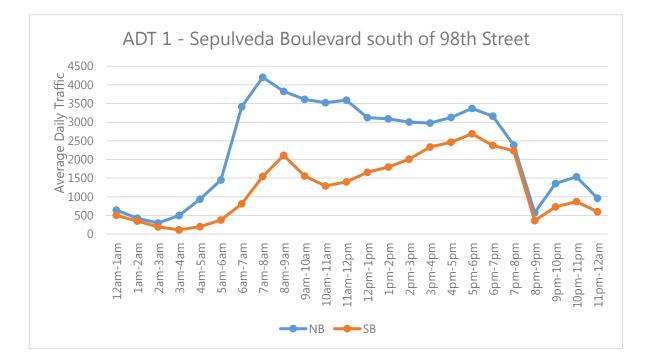
Mobility Plan 2035, Los Angeles Department of Planning, January 2016.

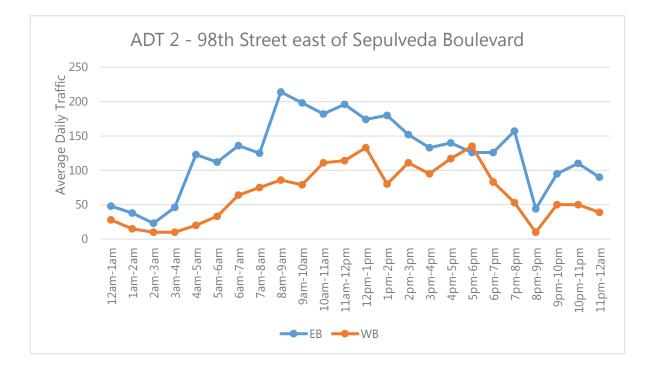
Transportation Impact Study Guidelines, Los Angeles Department of Transportation, December 2016.

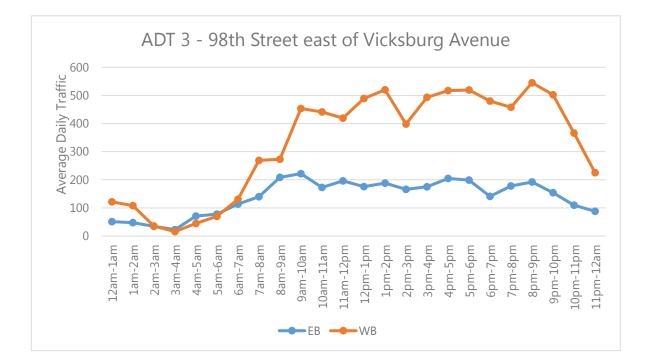
APPENDIX A:

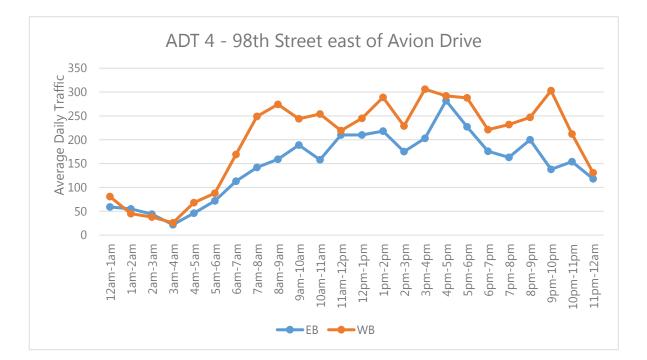
TRAFFIC COUNT DATA (DAILY AND PEAK PERIOD)

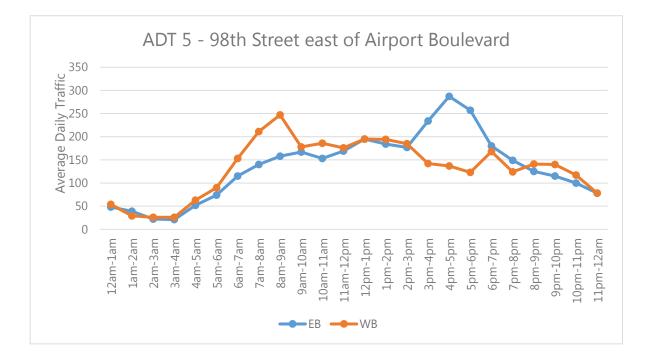
AVERAGE DAILY TRAFFIC COUNTS

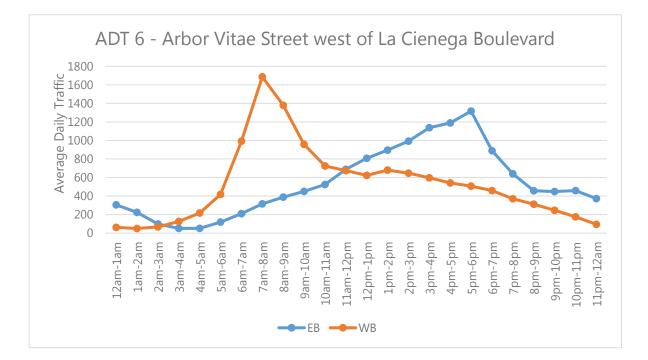


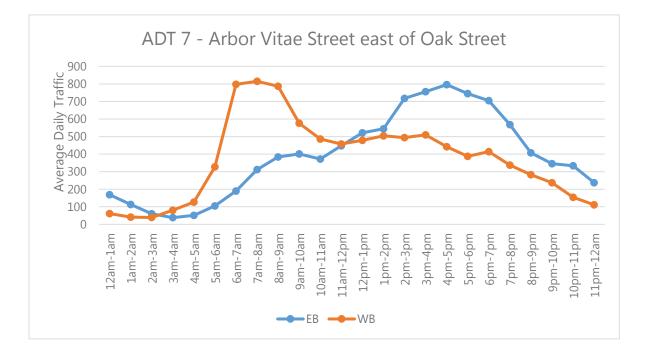


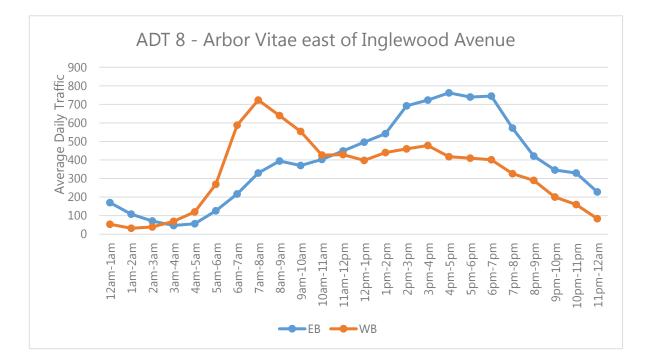


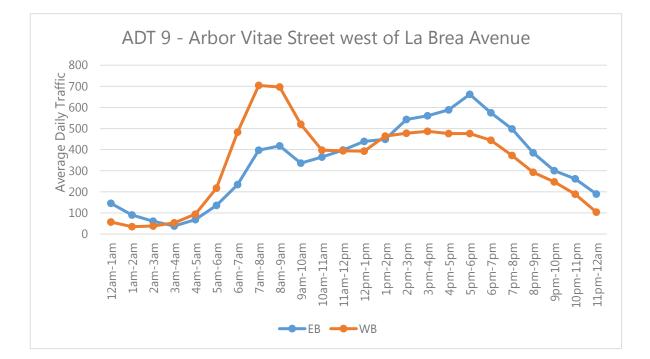


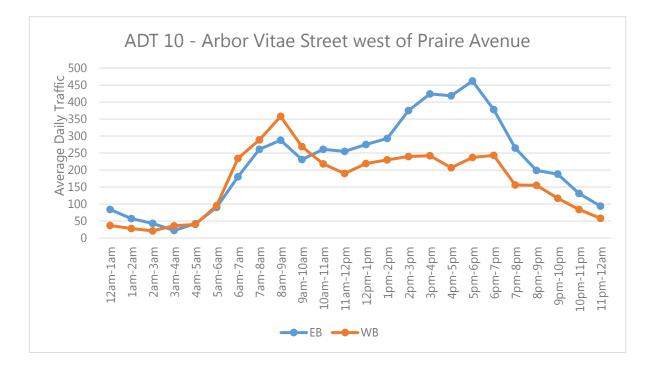












| Thursda | y, Feb | oruary 1 | 15, 201 | 8 | | Location | : 1 | LA | | | | PROJECT: | SC1625 | |
|----------------|---------------|----------|------------|---------|---------------|-------------|----------------|------------|---------|------------|-------|------------|----------|---------------------|
| ADT1 Sep | ulved | la bet | ween | World V | Vay and 98th. | d by: Field | Data Servic | ces of | Arizona | | P | repared by | AimTD LL | .C tel. 714 253 788 |
| AM Period | | | SB | E | | | PM Period | NB | | SB | | EB | WB | |
| 0:30 | 204 | | 139 | | | | 12:00 | 791 | | 378 | | | | |
| 0:15 | 158 | | 158 | | | | 12:15 | 806 | | 434 | | | | |
| 0:30 | 136 | | 126 | | | | 12:30 | 739 | | 386 | | | | |
| 0:45 | 146 | 644 | 78 | 501 | | 1145 | 12:45 | 788 | 3124 | 457 | 1655 | | | 4779 |
| 1:00 | 117 | | 115 | | | | 13:00 | 748 | | 436 | | | | |
| 1:15 | 104 | | 120 | | | | 13:15 | 751 | | 461 | | | | |
| 1:30 | 111 | | 55 | | | | 13:30 | 768 | | 441 | | | | 1005 |
| 1:45 | 94 | 426 | 59 | 349 | | 775 | 13:45 | | 3090 | | 1796 | | | 4886 |
| 2:00 | 74 | | 61 | | | | 14:00 | 760 | | 452 | | | | |
| 2:15 2:30 | 59 87 | | 53 39 | | | | 14:15 14:30 | 758 719 | | 494 543 | | | | |
| 2:45 | 77 | 297 | | 194 | | 491 | 14:45 | | 3003 | | 2007 | | | 5010 |
| 3:00 | 95 | 207 | 32 | 191 | | 191 | 15:00 | 702 | 5005 | 539 | 2007 | | | 5010 |
| 3:15 | 116 | | 30 | | | | 15:15 | 787 | | 571 | | | | |
| 3:30 | 161 | | 32 | | | | 15:30 | 731 | | 598 | | | | |
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| 6:00 | 551 | | 149 | | | | 18:00 | 826 | | 629 | | | | |
| 6:15 | 799 | | 182 | | | | 18:15 | 787 | | 607 | | | | |
| 6:30 | #### | 2414 | 215 265 | 011 | | 4225 | 18:30 | 803 | 2161 | 564 | 2275 | | | 5536 |
| 6:45 | #### | 5414 | | 011 | | 4225 | 18:45 | | 3161 | | 2375 | | | 5550 |
| 7:00 7:15 | #### ##### | | 281 337 | | | | 19:00 19:15 | 599 598 | | 582 612 | | | | |
| 7:30 | ##### | | 408 | | | | 19:15 | 596 | | 567 | | | | |
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| 8:00 | 944 | | 509 | - | | | 20:00 | 179 | | 117 | | | | |
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| 11:00 | 980 017 | | 339 364 | | | | 23:00 | 270 254 | | 175 170 | | | | |
| 11:15 11:30 | 914 835 | | 364 359 | | | | 23:15 23:30 | 254 222 | | 149 135 | | | | |
| 11:45 | | 3588 | | 1400 | | 4988 | 23:30 | 215 | 961 | 136 | 595 | | | 1556 |
| Total Vol. | | 26420 | | 10446 | | 36866 | | | 28659 | | 20100 | | | 48759 |
| | | 20120 | | 20110 | | 20000 | | | 20039 | | 20100 | Daily To | tals | -0733 |
| | | | | | | | | - | NB | | SB | EB | W | |
| | | | | | AM | | | | 55079 | | 30546 | РМ | | 85625 |
| Split % | | 71.7% | | 28.3% | | 43.1% | | | 58.8% | | 41.2% | | | 56.9% |
| Peak Hour | | 6:45 | | 8:00 | | 7:45 | | | 17:15 | | 17:00 | | | 17:00 |
| Volume | | 4233 | | 2111 | | 5986 | | | 3402 | | 2688 | | | 6053 |
| P.H.F. | | 0.97 | | 0.95 | | 0.97 | | | 0.98 | | 0.98 | | | 0.98 |
| | | | | | cs@aimtd.com | | | Tell. | 714 253 | 7888 | | | | |

| Thursday, Februa | ry 15, 2018 | | | D | nored | Location | : Doto Somiti | LA | | | JECT: | | | |
|---------------------------------------|-------------|----------|---------------|--------|----------------|----------------|------------------|---------------|----|----------|----------------|----------|----------------|----------------|
| ADT2 98th betwee | n Sepulved | a and | Vicks | burg | epared | by: Field | Data Servic | es of Arizona | | Prepa | red by | Aim | TD LLC † | el. 714 253 78 |
| M Period NB | SB | EB | | WB | | | PM Period | NB S | SB | EB | | WB | | |
| 0:30 | | 15 | | 6 | | | 12:00 | | | 42 | | 35 | | |
| 0:15 | | 13 | | 7 | | | 12:15 | | | 39 | | 32 | | |
| 0:30 | | 9 | | 9 | | | 12:30 | | | 54 | | 37 | 100 | |
| 0:45 | | 11 | 48 | 6 | 28 | 76 | 12:45 | | | 39 | 174 | 29 | 133 | 307 |
| 1:00 | | 12 | | 6 | | | 13:00 | | | 41 | | 21 | | |
| 1:15 | | 10 | | 3 | | | 13:15 | | | 49 | | 24 | | |
| 1:30 | | 7 | | 4 | | =- | 13:30 | | | 47 | | 21 | | |
| 1:45 | | 9 | 38 | 2 | 15 | 53 | 13:45 | | | 43 | 180 | 14 | 80 | 260 |
| 2:00 | | 10 | | 1 | | | 14:00 | | | 48 | | 27 | | |
| 2:15 | | 0 | | 1 5 | | | 14:15 | | | 37 | | 28 | | |
| 2:30 2:45 | | 6 7 | 23 | 5 3 | 10 | 33 | 14:30 14:45 | | | 31 36 | 152 | 23 33 | 111 | 263 |
| | | | 23 | | 10 | 22 | | | | | 152 | | 111 | 203 |
| 3:00 | | 10 | | 3 | | | 15:00 | | | 28 | | 19 22 | | |
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| 3:45 | | 13 | 46 | 2 | 10 | 56 | 15:45 | | | 32 | 133 | 30 | 95 | 228 |
| | | | 10 | | 10 | 50 | | | | | 155 | 30 | 55 | 220 |
| 4:00 4:15 | | 18 34 | | 5 6 | | | 16:00 16:15 | | | 32 41 | | 30 22 | | |
| 4:30 | | 33 | | 5 | | | 16:30 | | | 28 | | 31 | | |
| 4:45 | | 38 | 123 | 4 | 20 | 143 | 16:45 | | | 39 | 140 | 34 | 117 | 257 |
| 5:00 | | 34 | | 8 | | | 17:00 | | | 34 | | 34 | | |
| 5:15 | | 25 | | 3 | | | 17:15 | | | 35 | | 36 | | |
| 5:30 | | 26 | | 11 | | | 17:30 | | | 29 | | 34 | | |
| 5:45 | | 27 | 112 | 11 | 33 | 145 | 17:45 | | | 28 | 126 | 31 | 135 | 261 |
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| 8:30 | | 50 | | 21 | | | 20:30 | | | 6 | | 0 | | |
| 8:45 | | 60 | 214 | 21 | 86 | 300 | 20:45 | | | 11 | 44 | 6 | 10 | 54 |
| 9:00 | | 42 | | 15 | | | 21:00 | | | 10 | | 7 | | |
| 9:15 | | 67 | | 16 | | | 21:15 | | | 28 | | 19 | | |
| 9:30 | | 42 | | 20 | | | 21:30 | | | 34 | | 15 | | |
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| 10:30 | | 40 | | 31 | | | 22:30 | | | 25 | | 10 | | |
| 10:45 | | 52 | 182 | 30 | 111 | 293 | 22:45 | | | 28 | 110 | 10 | 50 | 160 |
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| 11:45 | | 54 | 196 | 38 | 114 | 310 | 23:45 | | | 15 | 90 | 5 | 39 | 129 |
| Total Vol. | | | 1441 | | 645 | 2086 | | | | | 1527 | | 956 | 2483 |
| | | | | | | | | NB | S | | Daily To EB | otals | WB | Combined |
| | | | | | | | | | | | 2968 | | 1601 | 4569 |
| | | | AM | | 20.004 | AE 30/ | | | | | PM | | 20 50/ | E4 20/ |
| Split % Peak Hour | | | 69.1% 8:30 | | 30.9% 11:45 | 45.7% 11:45 | | | | | 61.5% 13:15 |) | 38.5% 16:45 | 54.3% 12:00 |
| Volume | | | 8:30 219 | | 11:45 142 | 331 | | | | | 13:15 | | 16:45 | 307 |
| · · · · · · · · · · · · · · · · · · · | | | 0.82 | | 0.93 | 0.90 | | | | | 0.95 | | 0.96 | 0.84 |

| Thursday, February | 15, 2018 | | | | Locati | on: | LA | | PR | OJECT: | SC1 | 625 | |
|---------------------|------------|----------|-------------|----------|--------|-------|----------------|-------|----------|---------|------------|----------|----------------|
| ADT3 98th east of A | /icksburg. | | | | | | | | | Prepare | ed by | AimTD to | əl. 714 253 78 |
| AM Period NB | SB | EB | | WB | | | PM Period | NB SB | E | В | WB | | |
| 0:30 | | 17 | | 22 | | | 12:00 | | 48 | 3 | 153 | | |
| 0:15 | | 13 | | 18 | | | 12:15 | | 35 | | 135 | | |
| 0:30 | | 9 | - 4 | 66 | 400 | 470 | 12:30 | | 60 | | 124 | 100 | 665 |
| 0:45 | | 12 | 51 | 16 | 122 | 173 | 12:45 | | 33 | | 77 | 489 | 665 |
| 1:00 | | 8 | | 14 | | | 13:00 | | 52 | | 95 | | |
| 1:15 | | 13 9 | | 31 | | | 13:15 | | 54 38 | | 138 | | |
| 1:30 1:45 | | 9 18 | 48 | 42 21 | 108 | 156 | 13:30 13:45 | | 44 | | 168 119 | 520 | 708 |
| 2:00 | | 10 | 10 | 12 | 100 | 150 | 14:00 | | 47 | | 109 | 520 | 700 |
| 2:15 | | 8 | | 9 | | | 14:15 | | 43 | | 109 | | |
| 2:30 | | 9 | | 5 | | | 14:30 | | 31 | | 105 | | |
| 2:45 | | 8 | 35 | 10 | 36 | 71 | 14:45 | | 45 | | 78 | 398 | 564 |
| 3:00 | | 6 | | 4 | | | 15:00 | | 47 | | 131 | | |
| 3:15 | | 2 | | 2 | | | 15:15 | | 46 | | 110 | | |
| 3:30 | | 10 | | 2 | | | 15:30 | | 42 | | 113 | | |
| 3:45 | | 5 | 23 | 8 | 16 | 39 | 15:45 | | 40 | | 139 | 493 | 668 |
| 4:00 | | 16 | | 4 | | | 16:00 | | 50 |) | 123 | | |
| 4:15 | | 22 | | 8 | | | 16:15 | | 63 | | 110 | | |
| 4:30 | | 14 | | 12 | | | 16:30 | | 47 | 7 | 153 | | |
| 4:45 | | 19 | 71 | 21 | 45 | 116 | 16:45 | | 45 | 5 205 | 131 | 517 | 722 |
| 5:00 | | 31 | | 15 | | | 17:00 | | 53 | 3 | 142 | | |
| 5:15 | | 12 | | 8 | | | 17:15 | | 57 | 7 | 112 | | |
| 5:30 | | 17 | | 31 | | | 17:30 | | 41 | | 136 | | |
| 5:45 | | 18 | 78 | 16 | 70 | 148 | 17:45 | | 48 | | 129 | 519 | 718 |
| 6:00 | | 14 | | 28 | | | 18:00 | | 33 | | 137 | | |
| 6:15 | | 37 | | 22 | | | 18:15 | | 29 | | 100 | | |
| 6:30 | | 25 | | 49 | | | 18:30 | | 42 | | 121 | | 60.1 |
| 6:45 | | 38 | 114 | 32 | 131 | 245 | 18:45 | | 37 | | 122 | 480 | 621 |
| 7:00 | | 33 | | 73 | | | 19:00 | | 37 | | 129 | | |
| 7:15 7:30 | | 34 38 | | 42 94 | | | 19:15 19:30 | | 39 55 | | 113 126 | | |
| 7:45 | | 35 | 140 | 60 | 269 | 409 | 19:30 | | 47 | | 90 | 458 | 636 |
| 8:00 | | 45 | 110 | 77 | 205 | 105 | 20:00 | | 56 | | 122 | 150 | 030 |
| 8:15 | | 45 57 | | 75 | | | 20:00 | | 54 | | 141 | | |
| 8:30 | | 55 | | 51 | | | 20:13 | | 32 | | 127 | | |
| 8:45 | | 52 | 209 | 70 | 273 | 482 | 20:45 | | 50 | | 155 | 545 | 737 |
| 9:00 | | 62 | | 98 | | | 21:00 | | 51 | L | 142 | | |
| 9:15 | | 61 | | 91 | | | 21:15 | | 29 | | 96 | | |
| 9:30 | | 46 | | 145 | | | 21:30 | | 29 |) | 110 | | |
| 9:45 | | 53 | 222 | 119 | 453 | 675 | 21:45 | | 45 | 5 154 | 154 | 502 | 656 |
| 10:00 | | 49 | | 112 | | | 22:00 | | 30 |) | 125 | | |
| 10:15 | | 31 | | 111 | | | 22:15 | | 28 | 3 | 127 | | |
| 10:30 | | 41 | | 104 | | | 22:30 | | 28 | | 39 | | |
| 10:45 | | 52 | 173 | 114 | 441 | 614 | 22:45 | | 24 | 110 | 75 | 366 | 476 |
| 11:00 | | 45 | | 106 | | | 23:00 | | 24 | | 87 | | |
| 11:15 | | 31 | | 66 | | | 23:15 | | 26 | | 44 | | |
| 11:30 | | 57 | 100 | 110 | 410 | 615 | 23:30 | | 22 | | 53 | 225 | 212 |
| 11:45 | | 63 | 196 | 137 | 419 | 615 | 23:45 | | 16 | 5 88 | 41 | 225 | 313 |
| Total Vol. | | | 1360 | | 2383 | 3743 | | | | 1972 | | 5512 | 7484 |
| | | | | | | | | | | Daily T | otals | | |
| | | | | | | | | NB | SB | ËB | | WB | Combined |
| | | | A 84 | | | | | | | 3332 | | 7895 | 11227 |
| Split % | | | AM 36.3% | | 63.7% | 33.3% | | | | 26.3% | | 73.7% | 66.7% |
| Peak Hour 0:30 | 0:30 | | 8:30 | | 11:45 | 11:45 | | | | 19:30 | | 20:15 | 20:15 |
| | | | 230 | | 549 | 755 | | | | 212 | | 565 | 752 |
| Volume | | | | | | | | | | | | | |

| Thursday, February 15, | , 2018 | | | Locati | on: | LA | | P | PROJ | ECT: | SC16 | 525 | |
|------------------------|----------|-----------------|----------|--------|-------|----------------|-------|----|----------|--------------------|----------|----------|----------------|
| ADT4 98th east of Avid | on. | | | | | | | | Pro | epare | d by | AimTD to | əl. 714 253 78 |
| AM Period NB S | SB EB | | WB | | | PM Period | NB SB | | EB | | WB | | |
| 0:30 | 18 | | 27 | | | 12:00 | | | 58 | | 61 | | |
| 0:15 | 14 | | 23 | | | 12:15 | | | 45 | | 62 | | |
| 0:30 | 13 | 50 | 14 | 01 | 140 | 12:30 | | | 60 47 | 210 | 57 | 245 | 455 |
| 0:45 | 14 | 59 | 17 | 81 | 140 | 12:45 | | | 47 | 210 | 65 | 245 | 455 |
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| 2:00 | 10 | 55 | 13 | 15 | 100 | 14:00 | | | 46 | 210 | 57 | 205 | 507 |
| 2:15 | 10 | | 8 | | | 14:15 | | | 47 | | 67 | | |
| 2:30 | 11 | | 10 | | | 14:30 | | | 38 | | 54 | | |
| 2:45 | 12 | 44 | 7 | 38 | 82 | 14:45 | | | 44 | 175 | 51 | 229 | 404 |
| 3:00 | 4 | | 6 | | | 15:00 | | | 48 | | 67 | | |
| 3:15 | 5 | | 5 | | | 15:15 | | | 43 | | 71 | | |
| 3:30 | 9 | | 6 | | | 15:30 | | | 58 | | 88 | | |
| 3:45 | 4 | 22 | 9 | 26 | 48 | 15:45 | | | 54 | 203 | 80 | 306 | 509 |
| 4:00 | 11 | | 12 | | | 16:00 | | | 80 | | 66 | | |
| 4:15 | 10 | | 15 | | | 16:15 | | | 69 | | 72 | | |
| 4:30 | 7 | | 15 | | | 16:30 | | | 66 | | 71 | | |
| 4:45 | 18 | 46 | 26 | 68 | 114 | 16:45 | | | 67 | 282 | 83 | 292 | 574 |
| 5:00 | 28 | | 16 | | | 17:00 | | | 71 | | 69 | | |
| 5:15 | 14 | | 15 | | | 17:15 | | | 61 | | 73 | | |
| 5:30 | 13 | | 30 | | | 17:30 | | | 40 | | 79 | | |
| 5:45 | 17 | 72 | 27 | 88 | 160 | 17:45 | | | 55 | 227 | 67 | 288 | 515 |
| 6:00 | 21 | | 30 | | | 18:00 | | | 45 | | 53 | | |
| 6:15 | 36 | | 42 | | | 18:15 | | | 33 | | 50 | | |
| 6:30 | 26 | | 54 | | | 18:30 | | | 47 | | 64 | | |
| 6:45 | 30 | 113 | 43 | 169 | 282 | 18:45 | | | 51 | 176 | 54 | 221 | 397 |
| 7:00 | 36 | | 58 | | | 19:00 | | | 40 | | 57 | | |
| 7:15 | 31 | | 59 | | | 19:15 | | | 36 | | 54 | | |
| 7:30 | 36 | | 63 | | | 19:30 | | | 55 | | 63 | | |
| 7:45 | 39 | 142 | 69 | 249 | 391 | 19:45 | | | 32 | 163 | 58 | 232 | 395 |
| 8:00 | 41 | | 73 | | | 20:00 | | | 67 | | 59 | | |
| 8:15 | 38 | | 71 | | | 20:15 | | | 49 | | 57 | | |
| 8:30 | 42 | | 61 | | | 20:30 | | | 31 | | 56 | | |
| 8:45 | 38 | 159 | 69 | 274 | 433 | 20:45 | | | 53 | 200 | 75 | 247 | 447 |
| 9:00 | 53 | | 66 | | | 21:00 | | | 38 | | 104 | | |
| 9:15 | 56 | | 65 | | | 21:15 | | | 30 | | 56 | | |
| 9:30 | 45 | | 62 | | | 21:30 | | | 35 | | 82 | | |
| 9:45 | 35 | 189 | 51 | 244 | 433 | 21:45 | | | 35 | 138 | 61 | 303 | 441 |
| 10:00 | 41 | | 64 | | | 22:00 | | | 47 | | 60 | | |
| 10:15 | 37 | | 73 | | | 22:15 | | | 34 | | 53 | | |
| 10:30 | 41 | 150 | 68 40 | 254 | 417 | 22:30 | | | 34 20 | 154 | 52 | 212 | 200 |
| 10:45 | 39 | 158 | 49 | 254 | 412 | 22:45 | | | 39 | 154 | 47 | 212 | 366 |
| 11:00 | 50 | | 43 52 | | | 23:00 | | | 36 | | 53 | | |
| 11:15 | 46 | | 52 67 | | | 23:15 | | | 38 วว | | 38 10 | | |
| 11:30 | 63 51 | 210 | 67 57 | 219 | 429 | 23:30 | | | 22 22 | 118 | 19 21 | 131 | 249 |
| 11:45 | 51 | | J/ | | | 23:45 | | | <u> </u> | | 21 | | |
| Total Vol. | | 1269 | | 1755 | 3024 | | | | | 2264 | | 2995 | 5259 |
| | | | | | | | | | D | aily To | tals | | |
| | | | | | | | NB | SB | | EB | | WB | Combined |
| | | A 14 | | | | | | | | 3533 | | 4750 | 8283 |
| Split % | | AM 42.0% | | 58.0% | 36.5% | | | | | PM 43.1% | | 56.9% | 63.5% |
| Peak Hour 0:30 | 0:30 | 11:15 | | 7:30 | 11:30 | | | | | 16:00 | | 20:45 | 16:00 |
| Volume | | 218 | | 276 | 464 | | | | | 282 | | 317 | 574 |
| | | -10 | | 0.95 | | | | | | 202 | | J., | 57.1 |

| Thursday, February 15, 20 | 18 | | | Locati | on: | LA | | Р | | T: SC1 | | |
|---------------------------|------|--------------|----------|-------------|-------------|-----------|--------------------|----|------------|----------|-------------|----------------|
| ADT5 98th east of Airpor | t. | | | | | | | | Prepc | ared by | AimTD to | el. 714 253 78 |
| AM Period NB SB | EB | | WB | | | PM Period | NB SB | E | В | WB | | |
| 0:30 | 8 | | 18 | | | 12:00 | | 2 | 5 | 44 | | |
| 0:15 | 11 | | 13 | | | 12:15 | | 5 | 52 | 49 | | |
| 0:30 | 17 | | 10 | | | 12:30 | | 5 | 64 | 52 | | |
| 0:45 | 12 | 48 | 13 | 54 | 102 | 12:45 | | ۷ | 4 19 | 5 50 | 195 | 390 |
| 1:00 | 13 | | 7 | | | 13:00 | | 3 | 5 | 56 | | |
| 1:15 | 8 | | 9 | | | 13:15 | | 5 | 8 | 43 | | |
| 1:30 | 11 | | 9 | | | 13:30 | | | 4 | 41 | | |
| 1:45 | 7 | 39 | 4 | 29 | 68 | 13:45 | | 4 | 7 18 | 4 54 | 194 | 378 |
| 2:00 | 8 | | 8 | | | 14:00 | | 5 | 52 | 61 | | |
| 2:15 | 5 | | 8 | | | 14:15 | | | 2 | 47 | | |
| 2:30 | 5 | | 5 | | | 14:30 | | | 3 | 43 | | |
| 2:45 | 4 | 22 | 5 | 26 | 48 | 14:45 | | 4 | 0 17 | 7 34 | 185 | 362 |
| 3:00 | 3 | | 3 | | | 15:00 | | 5 | 50 | 36 | | |
| 3:15 | 3 | | 4 | | | 15:15 | | | 8 | 37 | | |
| 3:30 | 7 | | 6 | | | 15:30 | | | 5 | 35 | | |
| 3:45 | 8 | 21 | 13 | 26 | 47 | 15:45 | | 7 | '1 23 | 4 34 | 142 | 376 |
| 4:00 | 9 | | 10 | | | 16:00 | | | 0 | 31 | | |
| 4:15 | 14 | | 14 | | | 16:15 | | | 2 | 35 | | |
| 4:30 | 14 | | 18 | | | 16:30 | | | 33 | 34 | | |
| 4:45 | 15 | 52 | 21 | 63 | 115 | 16:45 | | 6 | 2 28 | 37 37 | 137 | 424 |
| 5:00 | 12 | | 18 | | | 17:00 | | | 9 | 36 | | |
| 5:15 | 22 | | 19 | | | 17:15 | | | 52 | 34 | | |
| 5:30 | 21 | | 31 | | | 17:30 | | | 8 | 29 | | |
| 5:45 | 19 | 74 | 22 | 90 | 164 | 17:45 | | | 8 25 | | 123 | 380 |
| 6:00 | 28 | | 38 | | | 18:00 | | | 5 | 35 | | |
| 6:15 | 22 | | 33 | | | 18:15 | | | 57 | 52 | | |
| 6:30 | 35 | | 37 | | | 18:30 | | | 3 | 39 | | |
| 6:45 | 30 | 115 | 45 | 153 | 268 | 18:45 | | | 18 | | 168 | 348 |
| 7:00 | 32 | | 46 | | | 19:00 | | | 7 | 34 | | |
| 7:15 | 38 | | 42 | | | 19:15 | | | 57 | 32 | | |
| 7:30 | 35 | | 60 | | | 19:30 | | | 26 | 28 | | |
| 7:45 | 35 | 140 | 63 | 211 | 351 | 19:45 | | | 9 14 | | 124 | 273 |
| 8:00 | 44 | | 62 | | | 20:00 | | | .3 | 31 | | |
| 8:15 | 33 | | 73 | | | 20:15 | | | 1 | 43 | | |
| 8:30 | 28 | 450 | 52 | 2.47 | 405 | 20:30 | | | 26 | 29 | | 266 |
| 8:45 | 53 | 158 | 60 | 247 | 405 | 20:45 | | | 5 12 | | 141 | 266 |
| 9:00 | 47 | | 46 | | | 21:00 | | | 8 | 43 | | |
| 9:15 | 41 | | 43 | | | 21:15 | | | .5 | 33 | | |
| 9:30 | 39 | 107 | 51 | 170 | 245 | 21:30 | | | 27 | 29 | 140 | 255 |
| 9:45 | 40 | 167 | 38 | 178 | 345 | 21:45 | | | .5 11 | | 140 | 255 |
| 10:00 | 43 | | 55 | | | 22:00 | | | 9 | 29 | | |
| 10:15 | 32 | | 48 | | | 22:15 | | | 27 | 39 | | |
| 10:30 | 38 | 150 | 44 | 100 | 220 | 22:30 | | | 26 0 10 | 30 | 117 | 217 |
| 10:45 | 40 | 153 | 39 | 186 | 339 | 22:45 | | | .8 10 | | 117 | 217 |
| 11:00 | 42 | | 36 | | | 23:00 | | | .4 | 25 | | |
| 11:15 | 42 | | 40 | | | 23:15 | | | .9 | 18 | | |
| 11:30 | 41 | 100 | 45 55 | 170 | 245 | 23:30 | | | .7 | 14 | 70 | 150 |
| 11:45 | 44 | 169 | 55 | 176 | 345 | 23:45 | |] | .8 78 | 8 21 | 78 | 156 |
| Fotal Vol. | | 1158 | | 1439 | 2597 | | | | 208 | 81 | 1744 | 3825 |
| | | | | | | | | | Daily | / Totals | | |
| | | | | | | | NB | SB | | В | WB | Combined |
| | | | | | | | | | 323 | | 3183 | 6422 |
| 0 | | AM | | | 40.40 | | | | | PM | 45 604 | F0 60/ |
| Split % | | 44.6% | | | 40.4% | | | | 54. | | 45.6% | 59.6% |
| Peak Hour 0:30 | 0:30 | 11:45 | | 7:30 | 7:30 | | | | 16: | | 12:15 | 16:15 |
| Volume P.H.F. | | 195 0.90 | | 258 0.88 | 405 0.96 | | | | 3U 0.8 | 06 86 | 207 0.92 | 448 0.90 |
| | | <u>cs@ai</u> | | | | | Tell. 714 253 7888 | | | | | |

| Thursday, February | 15, 2018 | | | Locati | ion: | LA | | PRC | DJECT: | SC16 | 525 | |
|---------------------|----------------|-------------|------------|--------|-------|----------------|-------|------------|-------------|------------|----------|----------------|
| ADT6 Arbor Vitae we | est of La Cien | ega. | | | | | | P | repare | d by | AimTD te | el. 714 253 78 |
| AM Period NB | SB EI | 3 | WB | | | PM Period | NB SB | EB | | WB | | |
| 0:30 | 77 | , | 15 | | | 12:00 | | 182 | | 173 | | |
| 0:15 | 91 | | 19 | | | 12:15 | | 198 | | 139 | | |
| 0:30 | 69 | | 15 | 62 | 260 | 12:30 | | 205 | 007 | 160 | 622 | 1 120 |
| 0:45 | 69 | | 13 | 62 | 368 | 12:45 | | 222 | | 151 | 623 | 1430 |
| 1:00 | 65 | | 10 | | | 13:00 | | 174 | | 170 | | |
| 1:15 | 60 52 | | 12 | | | 13:15 | | 210 267 | | 166 | | |
| 1:30 1:45 | 48 | | 13 16 | 51 | 276 | 13:30 13:45 | | 207 | 895 | 165 179 | 680 | 1575 |
| 2:00 | 32 | | 11 | | 270 | 14:00 | | 237 | | 150 | 000 | 15/5 |
| 2:00 | 33 | | 10 | | | 14:15 | | 237 | | 183 | | |
| 2:30 | 21 | | 21 | | | 14:30 | | 264 | | 140 | | |
| 2:45 | 12 | | 25 | 67 | 165 | 14:45 | | 267 | 993 | 174 | 647 | 1640 |
| 3:00 | 10 | | 23 | | | 15:00 | | 282 | | 132 | | |
| 3:15 | 19 | | 24 | | | 15:15 | | 278 | | 150 | | |
| 3:30 | 10 | | 39 | | | 15:30 | | 302 | | 172 | | |
| 3:45 | 13 | 52 | 40 | 126 | 178 | 15:45 | | 275 | 1137 | 144 | 598 | 1735 |
| 4:00 | 10 |) | 41 | | | 16:00 | | 284 | | 146 | | |
| 4:15 | 9 | | 45 | | | 16:15 | | 272 | | 132 | | |
| 4:30 | 20 |) | 56 | | | 16:30 | | 300 | | 136 | | |
| 4:45 | 13 | 52 | 76 | 218 | 270 | 16:45 | | 333 | 1189 | 128 | 542 | 1731 |
| 5:00 | 24 | ł | 83 | | | 17:00 | | 361 | | 123 | | |
| 5:15 | 24 | ł | 101 | | | 17:15 | | 345 | | 130 | | |
| 5:30 | 34 | | 100 | | | 17:30 | | 321 | | 132 | | |
| 5:45 | 37 | 119 | 133 | 417 | 536 | 17:45 | | 289 | 1316 | 122 | 507 | 1823 |
| 6:00 | 38 | | 124 | | | 18:00 | | 222 | | 110 | | |
| 6:15 | 44 | | 214 | | | 18:15 | | 246 | | 116 | | |
| 6:30 | 57 | | 264 | 000 | 1202 | 18:30 | | 210 | 000 | 111 | 450 | 10.17 |
| 6:45 | 71 | | 390 | 992 | 1202 | 18:45 | | 210 | | 122 | 459 | 1347 |
| 7:00 | 74 | | 407 | | | 19:00 | | 172 | | 94 | | |
| 7:15 7:30 | 71 84 | | 439 451 | | | 19:15 | | 157 168 | | 98 83 | | |
| 7:45 | 87 | | 389 | 1686 | 2002 | 19:30 19:45 | | 100 | | 85 96 | 371 | 1012 |
| | | | | 1000 | 2002 | | | 111 | | | 5/1 | 1012 |
| 8:00 8:15 | 96 10 | | 341 357 | | | 20:00 20:15 | | 124 | | 81 77 | | |
| 8:30 | 10 | | 336 | | | 20:15 | | 100 | | 81 | | |
| 8:45 | 87 | | 344 | 1378 | 1766 | 20:45 | | 119 | 457 | 74 | 313 | 770 |
| 9:00 | 10 | | 267 | | | 21:00 | | 119 | | 75 | | |
| 9:15 | 11 | | 280 | | | 21:15 | | 124 | | 62 | | |
| 9:30 | 11- | 4 | 213 | | | 21:30 | | 112 | | 57 | | |
| 9:45 | 11- | 4 451 | 197 | 957 | 1408 | 21:45 | | 94 | 449 | 53 | 247 | 696 |
| 10:00 | 11 | 0 | 206 | | | 22:00 | | 121 | | 51 | | |
| 10:15 | 13 | 6 | 159 | | | 22:15 | | 101 | | 53 | | |
| 10:30 | 12 | | 192 | | | 22:30 | | 115 | | 40 | | |
| 10:45 | 15 | 8 524 | 167 | 724 | 1248 | 22:45 | | 122 | 459 | 33 | 177 | 636 |
| 11:00 | 12 | | 188 | | | 23:00 | | 85 | | 21 | | |
| 11:15 | 16 | | 164 | | | 23:15 | | 100 | | 19 | | |
| 11:30 | 18 | | 170 | c=- | | 23:30 | | 102 | | 30 | c= | |
| 11:45 | 20 | 6 689 | 153 | 675 | 1364 | 23:45 | | 86 | 373 | 25 | 95 | 468 |
| Fotal Vol. | | 3430 | | 7353 | 10783 | | | | 9604 | | 5259 | 14863 |
| | | | | | | | | | Daily To | otals | | |
| | | | | | | | NB | SB | EB | | WB | Combine |
| | | AM | | | | | | | 13034 PM | 1 | 12612 | 25646 |
| Split % | | 31.8% | D | 68.2% | 42.0% | | | | 64.6% | | 35.4% | 58.0% |
| Peak Hour 0:30 | 0:30 | 11:45 | | 6:45 | 7:00 | | | | 16:45 | | 13:00 | 16:45 |
| | | 704 | | 1687 | 2002 | | | | 1360 | | 690 | 1873 |
| Volume P.H.F. | | 791 0.96 | | 0.94 | 0.94 | | | | 0.94 | | 680 | 0.97 |

| Thursday, February 1 | 5, 2018 | | | Locat | on: | Inglewood | | PRC | JECT: | SC1 | 625 | |
|----------------------|------------|--------------|------------|-------------|--------------|----------------|-------|------------|-------------------|----------|--------------|----------------|
| ADT7 Arbor Vitae eas | st of Oak. | | | | | | | Р | repare | d by | AimTD te | el. 714 253 78 |
| AM Period NB | SB EB | | WB | | | PM Period | NB SB | EB | | WB | | |
| 0:30 | 43 | | 13 | | | 12:00 | | 131 | | 121 | | |
| 0:15 | 44 | | 17 | | | 12:15 | | 132 | | 126 | | |
| 0:30 | 51 | | 21 | | | 12:30 | | 126 | | 131 | | |
| 0:45 | 31 | 169 | 10 | 61 | 230 | 12:45 | | 133 | 522 | 101 | 479 | 1001 |
| 1:00 | 34 | | 8 | | | 13:00 | | 111 | | 114 | | |
| 1:15 | 34 | | 8 | | | 13:15 | | 126 | | 131 | | |
| 1:30 | 30 | | 8 | | | 13:30 | | 150 | | 126 | = | |
| 1:45 | 15 | 113 | 17 | 41 | 154 | 13:45 | | 157 | 544 | 133 | 504 | 1048 |
| 2:00 | 22 | | 9 | | | 14:00 | | 175 | | 103 | | |
| 2:15 | 17 | | 9 | | | 14:15 | | 153 | | 149 | | |
| 2:30 | 16 | 60 | 10 | 20 | | 14:30 | | 186 | 74.0 | 109 | 10.1 | 1212 |
| 2:45 | 5 | 60 | 11 | 39 | 99 | 14:45 | | 204 | 718 | 133 | 494 | 1212 |
| 3:00 | 8 | | 17 | | | 15:00 | | 206 | | 128 | | |
| 3:15 | 10 | | 13 | | | 15:15 | | 180 | | 113 | | |
| 3:30 | 7 | 20 | 31 | 00 | 110 | 15:30 | | 184 | 750 | 138 | F10 | 1266 |
| 3:45 | 13 | 38 | 19 | 80 | 118 | 15:45 | | 186 | 756 | 131 | 510 | 1266 |
| 4:00 | 13 | | 19 | | | 16:00 | | 203 | | 119 | | |
| 4:15 | 10 | | 24 | | | 16:15 | | 201 | | 103 | | |
| 4:30 | 12 | -1 | 44 | 107 | 170 | 16:30 | | 209 | 700 | 107 | 442 | 1220 |
| 4:45 | 16 | 51 | 40 | 127 | 178 | 16:45 | | 183 | 796 | 113 | 442 | 1238 |
| 5:00 | 16 | | 49 | | | 17:00 | | 187 | | 103 | | |
| 5:15 | 25 | | 76 | | | 17:15 | | 187 | | 98 | | |
| 5:30 | 28 | 105 | 89 | 227 | 422 | 17:30 | | 180 | 745 | 94 02 | 200 | 1122 |
| 5:45 | 36 | 105 | 113 | 327 | 432 | 17:45 | | 191 | 745 | 93 | 388 | 1133 |
| 6:00 | 32 | | 130 | | | 18:00 | | 186 | | 111 | | |
| 6:15 | 36 | | 188 | | | 18:15 | | 163 | | 111 | | |
| 6:30 | 57 65 | 100 | 231 249 | 798 | 000 | 18:30 | | 170 | 705 | 95 97 | 414 | 1110 |
| 6:45 | | 190 | | 798 | 988 | 18:45 | | 186 | 705 | | 414 | 1119 |
| 7:00 | 69 | | 251 | | | 19:00 | | 157 | | 85 | | |
| 7:15 7:30 | 57 91 | | 196 179 | | | 19:15 19:30 | | 134 148 | | 94 77 | | |
| 7:45 | 91 | 312 | 189 | 815 | 1127 | 19:30 | | 140 | 568 | 81 | 337 | 905 |
| | | 512 | | 015 | 1127 | | | | 500 | | 227 | 905 |
| 8:00 | 98 | | 201 | | | 20:00 | | 100 | | 81 | | |
| 8:15 | 101 94 | | 205 195 | | | 20:15 | | 118 90 | | 71 | | |
| 8:30 8:45 | 94 | 384 | 195 | 787 | 1171 | 20:30 20:45 | | 90 100 | 408 | 68 63 | 283 | 691 |
| | | | | 707 | 11/1 | | | | -100 | | 205 | 091 |
| 9:00 | 107 103 | | 164 156 | | | 21:00 | | 71 108 | | 65 72 | | |
| 9:15 9:30 | 97 | | 124 | | | 21:15 21:30 | | 82 | | 52 | | |
| 9:45 | 94 | 401 | 132 | 576 | 977 | 21:30 | | 85 | 346 | 48 | 237 | 583 |
| | | | | 570 | 577 | | | | 510 | | 237 | 505 |
| 10:00 10:15 | 102 92 | | 142 111 | | | 22:00 22:15 | | 86 85 | | 43 45 | | |
| 10:15 | 92 | | 123 | | | 22:15 | | 85 73 | | 45 35 | | |
| 10:45 | 96 | 372 | 125 | 486 | 858 | 22:30 | | 90 | 334 | 31 | 154 | 488 |
| 11:00 | 90 | 512 | 120 | 100 | 550 | | | 65 | 557 | 25 | 1.71 | 100 |
| 11:00 | 94 107 | | 120 | | | 23:00 23:15 | | 69 | | 25 26 | | |
| 11:15 | 107 | | 105 | | | 23:15 | | 57 | | 20 29 | | |
| 11:45 | 122 | | 117 | 458 | 906 | 23:45 | | 46 | 237 | 31 | 111 | 348 |
| | 120 | | 110 | | | 20110 | | | | 01 | | |
| Total Vol. | | 2643 | | 4595 | 7238 | | | | 6679 | | 4353 | 11032 |
| | | | | | | | ND | | Daily To | otals | | Combined |
| | | | | | | | NB | SB | EB | | WB | Combined |
| | | AM | | | | | | | 9322 PM | | 8948 | 18270 |
| Split % | | 36.5% |) | 63.5% | 39.6% | | | | 60.5% | | 39.5% | 60.4% |
| | | | | | | | | | | | | 14:45 |
| | 0:30 | 11:45 | | 6:30 | 7:45 | | | | 15:45 | | 14:15 | 14.45 |
| | 0:30 | 11:45 514 | | 6:30 927 | 7:45 1178 | | | | 15:45 799 | | 14:15 519 | 1286 |

| Thursday, Februa | ary 15, 201 | 8 | | | Locati | on: | Inglewood | | PR | OJECT: | SC1 | 625 | |
|------------------|-------------|------------|-------|------------|------------|-------|--------------------|-------|------------|--------------|----------|---------|----------------|
| ADT8 Arbor Vitae | east of | Inglewood | ł. | | | | | | | Prepare | ed by | AimTD t | el. 714 253 78 |
| AM Period NB | SB | EB | | WB | | | PM Period | NB SB | E | 3 | WB | | |
| 0:30 | | 49 | | 17 | | | 12:00 | | 115 | 5 | 110 | | |
| 0:15 | | 49 | | 14 | | | 12:15 | | 129 |) | 89 | | |
| 0:30 | | 48 | | 16 | | | 12:30 | | 12: | | 106 | | |
| 0:45 | | 24 | 170 | 7 | 54 | 224 | 12:45 | | 13: | l 496 | 93 | 398 | 894 |
| 1:00 | | 35 | | 9 | | | 13:00 | | 119 |) | 103 | | |
| 1:15 | | 28 | | 8 | | | 13:15 | | 132 | | 109 | | |
| 1:30 | | 26 | | 4 | | | 13:30 | | 152 | | 112 | | |
| 1:45 | | 19 | 108 | 11 | 32 | 140 | 13:45 | | 139 | 542 | 116 | 440 | 982 |
| 2:00 | | 23 | | 6 | | | 14:00 | | 163 | 3 | 94 | | |
| 2:15 | | 22 | | 12 | | | 14:15 | | 165 | | 138 | | |
| 2:30 | | 20 | | 9 | | | 14:30 | | 183 | | 119 | | |
| 2:45 | | 6 | 71 | 12 | 39 | 110 | 14:45 | | 18: | l 692 | 109 | 460 | 1152 |
| 3:00 | | 11 | | 14 | | | 15:00 | | 18: | | 121 | | |
| 3:15 | | 15 | | 13 | | | 15:15 | | 179 | | 108 | | |
| 3:30 | | 9 | | 24 | | | 15:30 | | 194 | | 130 | | |
| 3:45 | | 12 | 47 | 18 | 69 | 116 | 15:45 | | 169 | 723 | 119 | 478 | 1201 |
| 4:00 | | 17 | | 16 | | | 16:00 | | 188 | | 96 | | |
| 4:15 | | 6 | | 29 | | | 16:15 | | 197 | | 111 | | |
| 4:30 | | 17 | | 36 | | | 16:30 | | 18: | | 105 | | |
| 4:45 | | 16 | 56 | 39 | 120 | 176 | 16:45 | | 196 | | 106 | 418 | 1180 |
| 5:00 | | 22 | | 40 | | | 17:00 | | 187 | | 103 | | |
| 5:15 | | 25 | | 60 | | | 17:15 | | 172 | | 107 | | |
| 5:30 | | 32 | | 74 | | | 17:30 | | 199 | | 97 | | |
| 5:45 | | 47 | 126 | 95 | 269 | 395 | 17:45 | | 18: | | 103 | 410 | 1149 |
| 6:00 | | 35 | | 109 | | | 18:00 | | 195 | | 113 | | |
| 6:15 | | 45 | | 141 | | | 18:15 | | 180 | | 85 | | |
| 6:30 | | 56 | 247 | 162 | 500 | 0.05 | 18:30 | | 192 | | 106 | 101 | 1115 |
| 6:45 | | 81 | 217 | 176 | 588 | 805 | 18:45 | | 178 | | 97 | 401 | 1146 |
| 7:00 | | 63 | | 188 | | | 19:00 | | 15 | | 89 | | |
| 7:15 | | 81 | | 181 | | | 19:15 | | 149 | | 87 | | |
| 7:30 | | 99 87 | 220 | 181 | 772 | 1052 | 19:30 | | 135 133 | | 74 76 | 226 | 000 |
| 7:45 | | | 330 | 173 | 723 | 1053 | 19:45 | | | | 76 | 326 | 898 |
| 8:00 | | 97 | | 159 | | | 20:00 | | 10: | | 81 | | |
| 8:15 | | 113 | | 168 | | | 20:15 | | 128 | | 85 | | |
| 8:30 | | 93 91 | 394 | 160 | 620 | 1022 | 20:30 | | 98 94 | | 69 EE | 200 | 711 |
| 8:45 | | | 394 | 152 | 639 | 1033 | 20:45 | | | | 55 | 290 | 711 |
| 9:00 | | 78 | | 146 | | | 21:00 | | 73 | | 51 | | |
| 9:15 | | 96 | | 140 | | | 21:15 | | 102 | | 50 | | |
| 9:30 | | 101 95 | 270 | 140 | FF4 | 024 | 21:30 | | 80 | | 56 | 200 | E4C |
| 9:45 | | | 370 | 128 | 554 | 924 | 21:45 | | 91 | | 43 | 200 | 546 |
| 10:00 | | 93 | | 115 | | | 22:00 | | 82 | | 49 | | |
| 10:15 | | 101 | | 97 100 | | | 22:15 | | 94 | | 43 26 | | |
| 10:30 | | 91 119 | 403 | 109 | 176 | 020 | 22:30 | | 68 | | 36 | 160 | 400 |
| 10:45 | | 118 | 403 | 105 | 426 | 829 | 22:45 | | 86 | | 32 | 160 | 490 |
| 11:00 | | 94 | | 127 | | | 23:00 | | 69 | | 23 | | |
| 11:15 | | 109 | | 99 102 | | | 23:15 | | 65 | | 19 19 | | |
| 11:30 11:45 | | 125 121 | 449 | 103 100 | 429 | 878 | 23:30 23:45 | | 50 44 | | 18 24 | 84 | 312 |
| | | 121 | | 100 | 727 | 070 | 23. 1 3 | | | | 27 | т | 512 |
| otal Vol. | | | 2741 | | 3942 | 6683 | | | | 6596 | | 4065 | 10661 |
| | | | | | | | | | | Daily Totals | | | |
| | | | | | | | | NB | SB | EB | | WB | Combined |
| | | | | | | | | | | 9337 | | 8007 | 17344 |
| | | | AM | | | | | | | PN | | | |
| Split % | | | 41.0% | | 59.0% | 38.5% | | | | 61.9% | 6 | 38.1% | 61.5% |
| Peak Hour 0: | :30 | 0:30 | 11:30 | | 6:45 | 7:30 | | | | 16:00 | | 14:15 | 15:30 |
| Volume | | | 490 | | 726 | 1077 | | | | 762 | | 487 | 1204 |
| | | | 0.95 | | 0.97 | 0.96 | | | | 0.97 | | 0.88 | 0.93 |

| Thursday, February 15, | 2018 | | | Locati | on: | Inglewood | | PRC | JECT: | SC1 | 625 | |
|------------------------|---------------|-------|------------|--------|-------|----------------|-------|------------|----------------|------------|----------|-----------------------|
| ADT9 Arbor Vitae west | t of La Brea. | | | | | | | P | repare | d by | AimTD te | 1 . 714 253 78 |
| AM Period NB | SB EB | | WB | | | PM Period | NB SB | EB | | WB | | |
| 0:30 | 45 | | 13 | | | 12:00 | | 107 | | 94 | | |
| 0:15 | 38 | | 18 | | | 12:15 | | 111 | | 85 | | |
| 0:30 | 39 | | 17 | | | 12:30 | | 102 | | 111 | | |
| 0:45 | 24 | 146 | 9 | 57 | 203 | 12:45 | | 119 | 439 | 103 | 393 | 832 |
| 1:00 | 27 | | 12 | | | 13:00 | | 105 | | 104 | | |
| 1:15 | 25 | | 6 | | | 13:15 | | 104 | | 111 | | |
| 1:30 | 19 19 | 90 | 7 10 | 35 | 125 | 13:30 13:45 | | 109 131 | 449 | 127 122 | 464 | 913 |
| 1:45 | | 90 | 7 | 55 | 125 | | | | 5 | | FUF | 915 |
| 2:00 2:15 | 20 15 | | 6 | | | 14:00 14:15 | | 119 137 | | 107 131 | | |
| 2:30 | 15 | | 8 | | | 14:30 | | 157 | | 118 | | |
| 2:45 | 9 | 61 | 17 | 38 | 99 | 14:45 | | 130 | 543 | 122 | 478 | 1021 |
| 3:00 | 12 | | 9 | | | 15:00 | | 131 | | 119 | | |
| 3:15 | 6 | | 11 | | | 15:15 | | 144 | | 127 | | |
| 3:30 | 10 | | 20 | | | 15:30 | | 137 | | 120 | | |
| 3:45 | 10 | 38 | 13 | 53 | 91 | 15:45 | | 148 | 560 | 121 | 487 | 1047 |
| 4:00 | 16 | | 14 | | | 16:00 | | 137 | | 127 | | |
| 4:15 | 12 | | 20 | | | 16:15 | | 139 | | 108 | | |
| 4:30 | 18 | | 33 | | | 16:30 | | 153 | | 117 | | |
| 4:45 | 22 | 68 | 27 | 94 | 162 | 16:45 | | 159 | 588 | 124 | 476 | 1064 |
| 5:00 | 22 | | 43 | | | 17:00 | | 158 | | 113 | | |
| 5:15 | 28 | | 48 | | | 17:15 | | 168 | | 126 | | |
| 5:30 | 33 | | 50 | | | 17:30 | | 166 | | 117 | | |
| 5:45 | 53 | 136 | 77 | 218 | 354 | 17:45 | | 170 | 662 | 120 | 476 | 1138 |
| 6:00 | 36 | | 87 | | | 18:00 | | 151 | | 112 | | |
| 6:15 | 50 | | 98 | | | 18:15 | | 149 | | 105 | | |
| 6:30 6:45 | 67 81 | 234 | 144 154 | 483 | 717 | 18:30 18:45 | | 145 130 | 575 | 124 103 | 444 | 1019 |
| | | ZJT | | COF | /1/ | | | | 575 | | | 1019 |
| 7:00 7:15 | 89 94 | | 167 175 | | | 19:00 19:15 | | 138 116 | | 103 98 | | |
| 7:30 | 92 | | 179 | | | 19:30 | | 121 | | 93 | | |
| 7:45 | 122 | 397 | 183 | 704 | 1101 | 19:45 | | 123 | 498 | 78 | 372 | 870 |
| 8:00 | 119 | | 159 | | | 20:00 | | 94 | | 94 | | |
| 8:15 | 111 | | 187 | | | 20:15 | | 116 | | 76 | | |
| 8:30 | 99 | | 173 | | | 20:30 | | 95 | | 70 | | |
| 8:45 | 89 | 418 | 178 | 697 | 1115 | 20:45 | | 80 | 385 | 53 | 293 | 678 |
| 9:00 | 85 | | 154 | | | 21:00 | | 72 | | 63 | | |
| 9:15 | 66 | | 125 | | | 21:15 | | 80 | | 64 | | |
| 9:30 | 86 | | 121 | | | 21:30 | | 64 | | 59 | | |
| 9:45 | 99 | 336 | 120 | 520 | 856 | 21:45 | | 84 | 300 | 61 | 247 | 547 |
| 10:00 | 96 | | 106 | | | 22:00 | | 67 | | 55 | | |
| 10:15 | 77 | | 92 | | | 22:15 | | 79 | | 44 | | |
| 10:30 | 86 | 265 | 98 | 207 | 760 | 22:30 | | 61 | 262 | 49 | 100 | 451 |
| 10:45 | 106 | 365 | 101 | 397 | 762 | 22:45 | | 55 | 262 | 41 | 189 | 451 |
| 11:00 | 82 | | 111 | | | 23:00 | | 56 | | 36 | | |
| 11:15 11:30 | 99 112 | | 95 97 | | | 23:15 23:30 | | 53 43 | | 24 22 | | |
| 11:45 | 105 | 398 | 91 | 394 | 792 | 23:45 | | 38 | 190 | 22 | 104 | 294 |
| Fotal Vol. | | 2687 | | | 6377 | | | | | | | 9874 |
| | | 2007 | | 3690 | 0377 | | | | 5451 | | 4423 | 90/4 |
| | | | | | | | NB | SB | Daily To EB | otals | WB | Combined |
| | | | | | | | | 00 | 8138 | | 8113 | 16251 |
| | | AM | | | | | | | PM | | | |
| Split % | | 42.1% | | 57.9% | 39.2% | | | | 55.2% | 0 | 44.8% | 60.8% |
| Peak Hour 0:30 | 0:30 | 7:45 | | 7:30 | 7:45 | | | | 17:00 | | 15:15 | 17:00 |
| Volume | | 451 | | 708 | 1153 | | | | 662 | | 495 | 1138 |
| P.H.F. | | 0.92 | | 0.95 | 0.95 | | | | 0.97 | | 0.97 | 0.97 |

| Thursday, February 15, 20 | 18 | | | Locati | on: | Inglewood | | PRC | JECT: | SC1 | 625 | |
|---------------------------|-------------|-----------------|----------|--------|-------|----------------|-------|-----------|-----------------|----------|----------|--------------|
| ADT10 Arbor Vitae west o | of Prairie. | | | | | | | P | repare | d by | AimTD te | . 714 253 78 |
| AM Period NB SB | EB | | WB | | | PM Period | NB SB | EB | | WB | | |
| 0:30 | 20 | | 12 | | | 12:00 | | 74 | | 48 | | |
| 0:15 | 25 | | 9 | | | 12:15 | | 74 | | 48 | | |
| 0:30 | 21 | | 13 | | | 12:30 | | 61 | | 55 | | |
| 0:45 | 18 | 84 | 3 | 37 | 121 | 12:45 | | 66 | 275 | 68 | 219 | 494 |
| 1:00 | 15 | | 12 | | | 13:00 | | 69 | | 58 | | |
| 1:15 | 22 | | 9 | | | 13:15 | | 76 | | 53 | | |
| 1:30 | 11 9 | 57 | 5 2 | 28 | 85 | 13:30 | | 69 79 | 293 | 63 56 | 220 | 523 |
| 1:45 | | 57 | | 28 | 85 | 13:45 | | | 293 | | 230 | 523 |
| 2:00 | 14 | | 6 | | | 14:00 | | 77 99 | | 46 74 | | |
| 2:15 2:30 | 10 14 | | 5 7 | | | 14:15 14:30 | | 99 | | 65 | | |
| 2:45 | 5 | 43 | 3 | 21 | 64 | 14:45 | | 105 | 375 | 55 | 240 | 615 |
| 3:00 | 6 | 15 | 6 | | 01 | 15:00 | | 92 | 3/3 | 60 | 210 | 015 |
| 3:15 | 6 | | 7 | | | 15:00 | | 92 116 | | 58 | | |
| 3:30 | 6 | | , 14 | | | 15:30 | | 110 | | 56 | | |
| 3:45 | 4 | 22 | 9 | 36 | 58 | 15:45 | | 106 | 424 | 68 | 242 | 666 |
| 4:00 | 9 | | 6 | | | 16:00 | | 100 | | 60 | | |
| 4:15 | 6 | | 9 | | | 16:15 | | 109 | | 49 | | |
| 4:30 | 12 | | 13 | | | 16:30 | | 105 | | 46 | | |
| 4:45 | 15 | 42 | 12 | 40 | 82 | 16:45 | | 101 | 419 | 52 | 207 | 626 |
| 5:00 | 12 | | 15 | | | 17:00 | | 106 | | 58 | | |
| 5:15 | 18 | | 23 | | | 17:15 | | 127 | | 58 | | |
| 5:30 | 25 | | 26 | | | 17:30 | | 103 | | 63 | | |
| 5:45 | 35 | 90 | 31 | 95 | 185 | 17:45 | | 126 | 462 | 58 | 237 | 699 |
| 6:00 | 33 | | 35 | | | 18:00 | | 98 | | 62 | | |
| 6:15 | 43 | | 49 | | | 18:15 | | 102 | | 61 | | |
| 6:30 | 47 | | 81 | | | 18:30 | | 86 | | 72 | | |
| 6:45 | 57 | 180 | 69 | 234 | 414 | 18:45 | | 92 | 378 | 48 | 243 | 621 |
| 7:00 | 56 | | 70 | | | 19:00 | | 90 | | 44 | | |
| 7:15 | 69 | | 64 | | | 19:15 | | 73 | | 47 | | |
| 7:30 | 72 | | 71 | | | 19:30 | | 56 | | 30 | | |
| 7:45 | 64 | 261 | 84 | 289 | 550 | 19:45 | | 46 | 265 | 35 | 156 | 421 |
| 8:00 | 65 | | 88 | | | 20:00 | | 51 | | 38 | | |
| 8:15 | 78 | | 96 | | | 20:15 | | 52 | | 41 | | |
| 8:30 | 69 | | 85 | | | 20:30 | | 49 | | 40 | | |
| 8:45 | 76 | 288 | 89 | 358 | 646 | 20:45 | | 47 | 199 | 36 | 155 | 354 |
| 9:00 | 50 | | 81 | | | 21:00 | | 43 | | 33 | | |
| 9:15 | 58 | | 60 | | | 21:15 | | 46 | | 28 | | |
| 9:30 | 73 | | 59 | | | 21:30 | | 40 | | 32 | | |
| 9:45 | 50 | 231 | 69 | 269 | 500 | 21:45 | | 59 | 188 | 24 | 117 | 305 |
| 10:00 | 77 | | 50 | | | 22:00 | | 39 | | 18 | | |
| 10:15 | 69 | | 66 | | | 22:15 | | 32 | | 18 | | |
| 10:30 | 67 | | 53 | | 470 | 22:30 | | 32 | | 19 | | |
| 10:45 | 48 | 261 | 49 | 218 | 479 | 22:45 | | 28 | 131 | 29 | 84 | 215 |
| 11:00 | 56 | | 53 | | | 23:00 | | 25 | | 17 | | |
| 11:15 | 65 | | 44 | | | 23:15 | | 20 | | 14 | | |
| 11:30 | 72 | 255 | 47 46 | 100 | AAE | 23:30 | | 26 | 04 | 17 | FO | 150 |
| 11:45 | 62 | 255 | 46 | 190 | 445 | 23:45 | | 23 | 94 | 10 | 58 | 152 |
| Fotal Vol. | | 1814 | | 1815 | 3629 | | | | 3503 | | 2188 | 5691 |
| | | | | | | | | | Daily T | otals | | |
| | | | | | | | NB | SB | EB | | WB | Combined |
| | | | | | | | | | 5317 | | 4003 | 9320 |
| Split % | | AM 50.0% | | 50.0% | 38.9% | | | | PM 61.6% | | 38.4% | 61.1% |
| Peak Hour 0:30 | 0:30 | 8:00 | | 8:00 | 8:00 | | | | 17:00 | | 14:15 | 17:00 |
| Volume | 5.00 | 288 | | 358 | 646 | | | | 462 | | 254 | 699 |
| Totallic | | | | | | | | | -102 | | | |
| P.H.F. | | 0.92 | | 0.93 | 0.93 | | | | 0.91 | | 0.86 | 0.94 |

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

| | <u>DATE:</u> Thu, Feb 15, 18 | LOCATION NORTH & EAST & W | SOUTH: | | LA Sepulveda 98th | I | | | | PROJECT ; LOCATION CONTROL: | l #: | SC1625 1 STOP W | | |
|----|---------------------------------|---------------------------------|----------------------|----------|-------------------------|----------------------|---------|---------|-----------------|-----------------------------------|----------------------------------|-----------------------|-------------|----------------|
| | NOTES: | | | | | | | | | | AM PM MD OTHER OTHER | ▲ W | N S ▼ | E► |
| | | N | IORTHBOUN | ND | S | OUTHBOUN | ND | | EASTBOUN | D | | WESTBOUN | D | |
| | LANES: | NL X | Sepulveda NT 4 | NR 0 | SL X | Sepulveda ST 4 | SR X | EL X | 98th ET X | ER X | WL X | 98th WT X | WR 1 | TOTAL |
| | 7:00 AM | 0 | 1,063 | 24 | 0 | 281 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1,386 |
| | 7:15 AM | 0 | 1,019 | 38 | 0 | 337 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 1,414 |
| | 7:30 AM | 0 | 1,010 | 27 | 0 | 408 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 1,464 |
| | 7:45 AM | 0 | 986 | 36 | 0 | 518 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 1,558 |
| | 8:00 AM | 0 | 897 | 47 | 0 | 509 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 1,476 |
| | 8:15 AM | 0 | 901 923 | 57 | 0 | 508 | 0 | 0 | 0 | 0 | 0 | 0 | 21 21 | 1,487 |
| | 8:30 AM | - | | 50 | - | 554 | - | - | - | 0 | - | - | | 1,548 |
| | 8:45 AM 9:00 AM | 0 | 892 826 | 60 42 | 0 | 540 428 | 0 | 0 | 0 | 0 | 0 | 0 | 21 15 | 1,513 1,311 |
| _ | 9:15 AM | 0 | 833 | 66 | 0 | 385 | 0 | 0 | 0 | 0 | 1 | 0 | 15 | 1,311 |
| AM | 9:30 AM | 0 | 852 | 42 | 0 | 382 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 1,296 |
| | 9:45 AM | 0 | 905 | 47 | 0 | 362 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 1,290 |
| | VOLUMES | 0 | 11,107 | 536 | 0 | 5,212 | 0 | 0 | 0 | 0 | 1 | 0 | 239 | 17,095 |
| | APPROACH % | 0% | 95% | 5% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 17,055 |
| | APP/DEPART | 11.643 | 1 | 11,346 | 5,212 | / | 5,212 | 0/0 | / | 537 | 240 | / | 0 | 0 |
| | BEGIN PEAK HR | 11/010 | 7:45 AM | 11/0 10 | 0/212 | 1 | 0/212 | | / | 557 | 2.0 | / | | - |
| | VOLUMES | 0 | 3,707 | 190 | 0 | 2,089 | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 6,069 |
| | APPROACH % | 0% | 95% | 5% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | ., |
| | PEAK HR FACTOR | | 0.953 | | | 0.943 | | | 0.000 | | | 0.902 | | 0.974 |
| | APP/DEPART | 3,897 | 1 | 3,790 | 2,089 | 1 | 2,089 | 0 | 1 | 190 | 83 | 1 | 0 | 0 |
| | 03:00 PM | 0 | 674 | 28 | 0 | 539 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 1,260 |
| | 3:15 PM | 0 | 748 | 39 | 0 | 571 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 1,380 |
| | 3:30 PM | 0 | 697 | 34 | 0 | 598 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 1,353 |
| | 3:45 PM | 0 | 723 | 32 | 0 | 624 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 1,409 |
| | 4:00 PM | 0 | 720 | 32 | 0 | 621 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 1,403 |
| | 4:15 PM | 0 | 710 | 41 | 0 | 634 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 1,407 |
| | 4:30 PM | 0 | 738 | 28 | 0 | 598 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 1,395 |
| | 4:45 PM | 0 | 820 | 39 | 0 | 608 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 1,501 |
| | 5:00 PM | 0 | 755 | 34 | 0 | 687 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 1,510 |
| M | 5:15 PM 5:30 PM | 0 | 834 837 | 35 29 | 0 | 669 673 | 0 | 0 | 0 | 0 | 0 | 0 | 36 34 | 1,574 |
| | 5:30 PM 5:45 PM | 0 | 837 | 29 | 0 | 673 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 1,573 1,531 |
| | VOLUMES | 0 | 9,069 | 399 | 0 | 7,481 | 0 | 0 | 0 | 0 | 0 | 0 | 347 | 1,531 |
| | APPROACH % | 0% | 96% | 4% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 17,290 |
| | APP/DEPART | 9,468 | 1 | 9,416 | 7,481 | / | 7,481 | 0 /0 | / | 399 | 347 | / | 0 | 0 |
| | BEGIN PEAK HR | 5,100 | 5:00 PM | 5,110 | 7,101 | 1 | 7,101 | | 1 | 555 | 517 | 1 | | |
| | VOLUMES | 0 | 3,239 | 126 | 0 | 2,688 | 0 | 0 | 0 | 0 | 0 | 0 | 135 | 6,188 |
| | APPROACH % | 0% | 96% | 4% | 0% | 100% | 0% | 0% | 0% | 0% | 0% | 0% | 100% | 0,100 |
| | PEAK HR FACTOR | 0,0 | 0.968 | 170 | 0,0 | 0.978 | 0,0 | 0,0 | 0.000 | 0.70 | 0,0 | 0.938 | 100 /0 | 0.983 |
| | APP/DEPART | 3,365 | 1 | 3,374 | 2,688 | / | 2,688 | 0 | / | 126 | 135 | 1 | 0 | 0 |

Sepulveda

NORTH SIDE

98th

WEST SIDE

EAST SIDE

98th

SOUTH SIDE

Sepulveda

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

| NOTES: SUITHBOUND EASTBOUND WESTBOUND ST ST SR EL ET ER WL WT WR 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 </th <th></th> <th>ALL</th> <th>SC1625 2 STOP ALL</th> <th>l #:</th> <th>PROJECT ; LOCATION CONTROL:</th> <th></th> <th></th> <th>. tel. 7142</th> <th></th> <th>LA Vicksburg 98th</th> <th></th> <th>SOUTH:</th> <th>LOCATION NORTH & S EAST & WE</th> <th><u>DATE:</u> Thu, Feb 15, 18</th> <th></th> | | ALL | SC1625 2 STOP ALL | l #: | PROJECT ; LOCATION CONTROL: | | | . tel. 7142 | | LA Vicksburg 98th | | SOUTH: | LOCATION NORTH & S EAST & WE | <u>DATE:</u> Thu, Feb 15, 18 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|-------------------------|-------------------|-----------------------------------|-------|------|-------------|-----------|-------------------------|-------|----------------|------------------------------------|---------------------------------|----------|
| Vesteurg Vesteurg Stell ST SR EL ET ER EL ET ET I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <t< th=""><th>N E►</th><th>N / S</th><th>▲ W</th><th>PM MD OTHER</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>NOTES:</th><th></th></t<> | N E► | N / S | ▲ W | PM MD OTHER | | | | | | | | | | NOTES: | |
| LANES: 0 1 0 1 1 0 1 1 0 1 1 0 7:00 AM 5 11 15 7 20 3 1 13 5 13 20 39 7:15 AM 10 11 14 11 15 7 4 16 6 13 15 60 7:45 AM 6 15 6 16 22 7 6 15 5 11 16 40 8:00 AM 5 15 10 14 18 19 7 19 7 16 18 38 8:30 AM 4 8 12 14 19 8 6 25 10 13 20 37 9:00 AM 5 11 16 29 21 5 6 24 9 13 16 70 9:15 AM 7 15 16 | | | 98th | | | 98th | | | Vicksburg | | | Vicksburg | | | |
| 7:15 AM 11 9 10 6 22 4 5 16 8 9 13 24 7:30 AM 10 11 14 11 15 7 4 16 6 13 15 60 7:45 AM 6 15 6 16 22 7 6 15 5 11 16 40 8:00 AM 5 15 10 14 18 19 7 19 7 16 18 38 8:30 AM 4 10 14 14 22 13 5 28 4 7 18 31 8:45 AM 4 8 12 14 19 8 6 25 10 13 20 37 9:00 AM 5 8 13 12 12 6 14 19 6 21 20 114 14 15 51 10 10 | | | | | | | | | | | | | | LANES: | |
| 7:30 AM 10 11 14 11 15 7 4 16 6 13 15 60 7:45 AM 6 15 6 16 22 7 6 15 5 11 16 40 8:00 AM 5 15 10 14 18 19 7 19 7 16 18 38 8:30 AM 4 10 14 14 22 13 5 28 4 7 18 31 8:30 AM 4 8 12 14 19 8 6 25 10 13 20 37 9:00 AM 5 16 12 20 7 17 32 14 18 15 51 9:30 AM 5 8 13 12 12 6 14 19 6 21 20 114 9:30 AM 5 8 16 | | | | - | | | 1 | | | 7 | | | - | | |
| 7:45 AM 6 15 6 15 5 11 16 40 8:00 AM 5 15 10 14 18 19 7 19 7 16 18 38 8:15 AM 11 11 17 9 24 10 3 30 11 8 21 43 8:30 AM 4 10 14 14 22 13 5 28 4 7 18 31 8:45 AM 4 8 12 14 19 8 6 25 10 13 16 70 9:00 AM 5 8 13 12 12 6 14 19 6 21 20 114 18 15 51 9:30 AM 5 8 13 12 12 6 14 19 6 21 20 16 27 6 20 16 216 <t< td=""><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td></t<> | | | | - | | | | | | - | | - | | | |
| 8:00 AM 5 15 10 14 18 19 7 19 7 16 18 38 8:15 AM 11 11 17 9 24 10 3 30 11 8 21 43 8:30 AM 4 10 14 14 22 13 5 28 4 7 18 31 8:45 AM 4 8 12 14 19 8 6 25 10 13 20 37 9:00 AM 5 8 13 12 12 6 14 19 6 21 20 114 9:30 AM 5 8 13 12 12 6 14 19 6 21 20 114 18 37 426 336 49% 19% 19% 59% 22% 16% 22% 62% 62% 62% 62% 62% 62% 62% | | | | - | | | | | | | | | - | | |
| 8:15 AM 11 11 17 9 24 10 3 30 11 8 21 43 8:30 AM 4 10 14 14 22 13 5 28 4 7 18 31 8:45 AM 4 8 12 14 19 8 6 25 10 13 20 37 9:00 AM 5 11 16 29 21 5 6 24 9 13 16 70 9:15 AM 7 15 16 12 20 71 32 14 18 15 51 9:30 AM 5 8 13 12 26 4 10 22 12 20 21 62 34 VOLUMES 79 140 161 161 241 93 84 259 97 162 221 623 APPOZENAT 380 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>⊢</td></t<> | | | | | | | | | | | | | | | ⊢ |
| 8:30 AM 4 10 14 14 22 13 5 28 4 7 18 31 9:00 AM 5 11 16 29 21 5 6 24 9 13 16 70 9:15 AM 7 15 16 12 20 7 17 32 14 18 15 51 9:30 AM 5 8 13 12 2 6 14 19 6 21 20 71 9:30 AM 5 8 13 12 2 6 14 19 6 21 20 114 9:45 AM 6 16 18 17 26 4 10 22 12 20 21 62 22 62 62% APPO 16% 27% 52 440 / 581 1,006 / 391 BEGIN PEAK IR 9:00 AM 10% | | | | | | | | | | | | | | | |
| 8:45 AM 4 8 12 14 19 8 6 25 10 13 20 37 9:00 AM 5 11 16 29 21 5 6 24 9 13 16 70 9:15 AM 7 15 16 12 20 7 17 32 14 18 15 51 9:30 AM 5 8 13 12 12 6 14 19 6 21 20 114 9:45 AM 6 16 18 17 26 4 10 22 12 20 29 76 VOLUMES 79 140 161 161 241 93 84 259 97 162 221 623 APP/DEPART 380 / 847 495 / 50 63 70 79 22 47 97 41 72 80 < | | | | | | | | | | | | | | | H |
| 9:00 AM 5 11 16 29 21 5 6 24 9 13 16 70 9:15 AM 7 15 16 12 20 7 17 32 14 18 15 51 9:30 AM 5 8 13 12 12 6 14 19 6 20 20 29 76 VOLUMES 79 140 161 161 241 93 84 259 97 162 221 623 APPROACH % 21% 37% 42% 33% 49% 19% 59% 22% 16% 22% 62% 62% APPLOENART 380 / 847 495 / 502 440 / 581 1,006 / 311 APPLOENART 136 / 46% 41% 46% 13% 25% 52% 22% 16% 0.747 0.747 | | | | | | | | | | | | | | | ⊢ |
| 9:15 AM 7 15 16 12 20 7 17 32 14 18 15 51 9:30 AM 5 8 13 12 12 16 14 19 6 21 20 114 9:45 AM 6 16 18 17 26 4 10 22 12 20 29 76 VOLUMES 79 140 161 161 241 93 84 259 97 162 221 623 APPROACH % 21% 37% 42% 33% 49% 19% 19% 59% 22% 16% 22% 62% APP/DEPART 380 / 847 495 / 520 22% 16% 17% 67% VOLUMES 23 50 63 70 79 22 47 97 41 72 80 311 APPDOEPART 136 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\vdash</td></td<> | | | | | | | - | | | | | | | | \vdash |
| 9:30 AM 5 8 13 12 12 6 14 19 6 21 20 114 9:45 AM 6 16 18 17 26 4 10 22 12 20 29 76 VOLUMES 79 140 161 161 241 93 84 259 97 162 221 623 76 APPROACH % 21% 37% 42% 33% 49% 19% 19% 59% 22% 16% 22% 62% APPROACH % 17% 37% 46% 13% 25% 52% 22% 16% 17% 67% PEAK IR 9:00 AM 17% 79 22 47 97 41 72 80 311 APPROACH % 17% 37% 46% 13% 25% 52% 22% 16% 0.77 APP/DEPART 136 1 13 11 | | | | - | | | | | | | | | | 0.45.414 | ⊢ |
| Dist Dist <thdis< th=""> Dist Dist D</thdis<> | | | - | - | | | | | - | | | - | | | Ş - |
| VOLUMES 79 140 161 161 241 93 84 259 97 162 221 623 APPROACH % 21% 37% 42% 33% 49% 19% 19% 59% 22% 16% 22% 62% APP/DEPART 380 / 847 495 / 502 440 / 581 1,006 / 391 BEGIN PEAK HR 9:00 AM 70 79 22 47 97 41 72 80 311 APPROACH % 17% 37% 46% 41% 46% 13% 25% 52% 22% 16% 17% 67% PEAK HR FACTOR 0.850 0.777 0.734 0.742 0.747 0.744 17 68 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:30 PM 11 15 11 | | | | | | | | | | | | | | 5150741 | ۱ |
| APPROACH % 21% 37% 42% 33% 49% 19% 19% 59% 22% 16% 22% 62% APP/DEPART 380 / 847 495 / 502 440 / 581 1,006 / 391 BEGIN PEAK HR 9:00 AM 70 79 22 47 97 41 72 80 311 APRROACH % 17% 37% 46% 41% 46% 13% 25% 52% 22% 16% 17% 67% PAP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 APP/DEPART 136 / 408 171 / 192 185 / 20 22 63 330 112 12 12 20 22 63 330 112 12 102 12 133 17 23 93 14 | | | | | | | | | | | | | | | |
| APP/DEPART 380 7 847 495 7 502 440 7 581 1,006 7 391 BEGIN PEAK HR 9:00 AM 9:00 AM 7 79 22 47 97 41 72 80 311 APPROACH % 17% 37% 46% 41% 46% 13% 25% 52% 22% 16% 17% 67% APROACH % 17% 0.850 0.777 0.734 0.747 0.747 APP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 03:00 PM 6 9 10 14 31 5 1 13 11 24 17 68 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:30 PM 11 15 21 5 5 | | | | | | | - | | | | | | | | |
| BEGIN PEAK HR 9:00 AM 70 79 22 47 97 41 72 80 311 APPROACH % 17% 37% 46% 11% 25% 52% 22% 16% 17% 67% APPROACH % 17% 37% 46% 0.777 0.734 0.747 APP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 03:00 PM 6 9 10 14 31 5 1 13 11 24 17 68 3:30 PM 11 15 21 5 25 4 7 14 14 23 19 102 3:30 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:15 PM 4 11 24 18 21 3 3 19 8 | | | 22-70 | | | 3970 | | | / 1970 | | | 3770 | | | - |
| VOLUMES 23 50 63 70 79 22 47 97 41 72 80 311 APPROACH % 17% 37% 46% 41% 46% 13% 25% 52% 22% 16% 17% 67% APP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 APP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 03:00 PM 6 9 10 14 31 5 1 13 11 24 17 68 3:15 PM 4 14 15 20 2 6 20 12 20 22 63 3:30 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:00 PM 6 | 51 0 | 591 | 1 | 1,000 | 501 | 1 | 077 | J02 | / | JJ | 047 | <u>9.00 ΦΜ</u> | 500 | | |
| APPROACH % 17% 37% 46% 41% 46% 13% 25% 52% 22% 16% 17% 67% APP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 03:00 PM 6 9 10 14 31 5 1 13 11 24 17% 68 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:30 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:15 PM 4 11 24 18 21 3 3 19 8 18 16 86 4:30 PM 9 <td>11 955</td> <td>311</td> <td>80</td> <td>72</td> <td>41</td> <td>97</td> <td>47</td> <td>22</td> <td>79</td> <td>70</td> <td>63</td> <td></td> <td>23</td> <td></td> <td></td> | 11 955 | 311 | 80 | 72 | 41 | 97 | 47 | 22 | 79 | 70 | 63 | | 23 | | |
| PEAK HR FACTOR 0.850 0.777 0.734 0.747 APP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 03:00 PM 6 9 10 14 31 5 1 13 11 24 17 68 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:30 PM 11 15 21 5 25 4 7 14 14 23 19 102 3:45 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:00 PM 6 14 19 21 32 5 10 12 13 17 23 93 4:15 PM 4 11 10 11 7 21 5 3 23 | | | | | | | | | | - | | | | | |
| APP/DEPART 136 / 408 171 / 192 185 / 230 463 / 125 03:00 PM 6 9 10 14 31 5 1 13 11 24 17 68 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:30 PM 11 15 21 5 25 4 7 14 14 23 19 102 3:45 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:00 PM 6 14 19 21 32 5 10 12 13 17 23 93 4:15 PM 4 11 24 18 21 11 25 5 4 16 8 13 22 62 4:30 P | 0.933 | | | 1070 | 22 /0 | | 2370 | 13 /0 | | 11 /0 | 1070 | | 17 /0 | | |
| 03:00 PM 6 9 10 14 31 5 1 13 11 24 17 68 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:30 PM 11 15 21 5 25 4 7 14 14 23 19 102 3:45 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:00 PM 6 14 19 21 32 5 10 12 13 17 23 93 4:15 PM 4 11 24 18 21 3 3 19 8 18 16 86 4:30 PM 9 18 21 11 25 5 4 16 8 13 22 62 5:00 PM 15 18 | | | / | 463 | 230 | / | 185 | 192 | / | 171 | 408 | 1 | 136 | | |
| 3:15 PM 4 14 14 15 20 2 6 20 12 20 22 63 3:30 PM 11 15 21 5 25 4 7 14 14 23 19 102 3:45 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:00 PM 6 14 19 21 32 5 10 12 13 17 23 93 4:15 PM 4 11 24 18 21 3 3 19 8 18 16 86 4:30 PM 9 18 21 11 25 5 4 16 8 13 22 62 4:45 PM 11 10 11 7 21 5 3 23 7 18 28 100 5:00 PM 13 13 | | | 17 | | | 13 | | | 31 | | | 9 | | | Ť |
| 3:30 PM 11 15 21 5 25 4 7 14 14 23 19 102 3:45 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:00 PM 6 14 19 21 32 5 10 12 13 17 23 93 4:15 PM 4 11 24 18 21 3 3 19 8 18 16 86 4:30 PM 9 18 21 11 25 5 4 16 8 13 22 62 4:45 PM 11 10 11 7 21 5 3 23 7 18 28 100 5:00 PM 15 18 19 13 28 5 5 22 8 23 26 85 5:15 PM 8 18 | | | | | | - | | | - | | - | - | | | F |
| 3:45 PM 10 10 9 11 29 5 1 20 9 23 25 85 4:00 PM 6 14 19 21 32 5 10 12 13 17 23 93 4:15 PM 4 11 24 18 21 3 3 19 8 18 16 86 4:15 PM 4 10 11 7 21 5 3 23 7 18 28 100 4:45 PM 11 10 11 7 21 5 3 23 7 18 28 100 5:00 PM 15 18 19 13 28 5 5 22 8 23 26 85 5:15 PM 8 18 23 15 15 8 7 21 6 20 22 86 5:30 PM 13 13 | | | | | | | - | | | - | | | | | F |
| 4:00 PM 6 14 19 21 32 5 10 12 13 17 23 93 4:15 PM 4 11 24 18 21 3 3 19 8 18 16 86 4:30 PM 9 18 21 11 25 5 4 16 8 13 22 62 4:45 PM 11 10 11 7 21 5 3 23 7 18 28 100 5:00 PM 15 18 19 13 28 5 5 22 8 23 26 85 5:15 PM 8 18 23 15 15 8 7 21 6 20 22 86 5:30 PM 13 13 17 10 25 9 3 18 7 20 24 74 5:45 PM 10 15 | | | | | | | 1 | | | | | | | | F |
| 4:15 PM 4 11 24 18 21 3 3 19 8 18 16 86 4:30 PM 9 18 21 11 25 5 4 16 8 13 22 62 4:45 PM 11 10 11 7 21 5 3 23 7 18 28 100 5:00 PM 15 18 19 13 28 5 22 8 23 26 85 5:15 PM 8 18 23 15 15 8 7 21 6 20 22 86 5:30 PM 13 13 17 10 25 9 3 18 7 20 24 74 5:45 PM 10 15 12 13 26 6 2 18 5 24 19 119 VOLUMES 107 165 200 | | | | 17 | | | 10 | | | 21 | | 14 | 6 | | F |
| 4:45 PM 11 10 11 7 21 5 3 23 7 18 28 100 5:00 PM 15 18 19 13 28 5 5 22 8 23 26 85 5:15 PM 8 18 23 15 15 8 7 21 6 20 22 86 5:30 PM 13 13 17 10 25 9 3 18 7 20 24 74 5:45 PM 10 15 12 13 26 6 2 18 5 24 19 119 VOLUMES 107 165 200 153 298 62 52 216 108 243 263 1,023 APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APPROACH % | 36 231 | 86 | 16 | 18 | 8 | 19 | 3 | | 21 | 18 | 24 | 11 | 4 | 4:15 PM | F |
| 5:00 PM 15 18 19 13 28 5 5 22 8 23 26 85 5:15 PM 8 18 23 15 15 8 7 21 6 20 22 86 5:30 PM 13 13 17 10 25 9 3 18 7 20 24 74 S:30 PM 10 15 12 13 26 6 2 18 5 24 19 119 VOLUMES 107 165 200 153 298 62 52 216 108 243 263 1,023 APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% BEGIN | 52 214 | 62 | 22 | 13 | 8 | 16 | 4 | 5 | 25 | 11 | 21 | 18 | 9 | 4:30 PM | |
| 5:15 PM 8 18 23 15 15 8 7 21 6 20 22 86 5:30 PM 13 13 17 10 25 9 3 18 7 20 24 74 5:45 PM 10 15 12 13 26 6 2 18 5 24 19 119 VOLUMES 107 165 200 153 298 62 52 216 108 243 263 1,023 APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APP/DEPART 472 / 1,241 513 / 649 376 / 569 1,529 / 431 BEGIN PEAK HR 5:00 PM 5:00 PM 51 94 28 17 79 26 87 91 364 APPROACH | 00 244 | 100 | 28 | 18 | 7 | 23 | | | 21 | 7 | | 10 | 11 | 4:45 PM | |
| 5:30 PM 13 13 17 10 25 9 3 18 7 20 24 74 5:45 PM 10 15 12 13 26 6 2 18 5 24 19 119 VOLUMES 107 165 200 153 298 62 52 216 108 243 263 1,023 APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APP/DEPART 472 / 1,241 513 / 649 376 / 569 1,529 / 431 BEGIN PEAK HR 5:00 PM 5:00 PM VOLUMES 46 64 71 51 94 28 17 79 26 87 91 364 APPROACH % 25% 35% 39% 29% 54% 16% 14% 65% 21% | 35 267 | 85 | 26 | 23 | 8 | 22 | 5 | 5 | 28 | 13 | 19 | 18 | 15 | 5:00 PM | |
| 5:45 PM 10 15 12 13 26 6 2 18 5 24 19 119 VOLUMES 107 165 200 153 298 62 52 216 108 243 263 1,023 APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APP/DEPART 472 / 1,241 513 / 649 376 / 569 1,529 / 431 BEGIN PEAK HR 5:00 PM - - - - - - - - - - 431 - - - - - - - - - - - - - - - | | | | | | | | | | | | | | | E |
| VOLUMES 107 165 200 153 298 62 52 216 108 243 263 1,023 APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APP/DEPART 472 / 1,241 513 / 649 376 / 569 1,529 / 431 BEGIN PEAK HR 5:00 PM 7 51 94 28 17 79 26 87 91 364 APPROACH % 25% 35% 39% 29% 54% 16% 14% 65% 21% 16% 17% 67% | | | | - | | | | | | - | | - | - | 5.50114 | - [|
| APPROACH % 23% 35% 42% 30% 58% 12% 14% 57% 29% 16% 17% 67% APP/DEPART 472 / 1,241 513 / 649 376 / 569 1,529 / 431 BEGIN PEAK HR 5:00 PM | | | | | | | | | | | | | | | |
| APP/DEPART 472 1,241 513 649 376 569 1,529 431 BEGIN PEAK HR 5:00 PM 5:00 PM <t< td=""><td></td><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | , | | | | | | | | | | | | | |
| BEGIN PEAK HR 5:00 PM VOLUMES 46 64 71 51 94 28 17 79 26 87 91 364 APPROACH % 25% 35% 39% 29% 54% 16% 14% 65% 21% 16% 17% 67% | | | 17% | | | 57% | | | 58% | | | 35% | | | |
| VOLUMES 46 64 71 51 94 28 17 79 26 87 91 364 APPROACH % 25% 35% 39% 29% 54% 16% 14% 65% 21% 16% 17% 67% | 31 0 | 431 | / | 1,529 | 569 | / | 376 | 649 | / | 513 | 1,241 | / | 472 | , | |
| APPROACH % 25% 35% 39% 29% 54% 16% 14% 65% 21% 16% 17% 67% | 1 010 | 264 | 01 | 07 | 26 | 70 | 17 | 20 | 0.4 | F1 | 74 | | 40 | | |
| | | | | | | | | | | - | | | - | | |
| IPEAK HK FACTUK I 0.870 I 0.940 I 0.871 0.836 I | | | | 16% | 21% | | 14% | 16% | | 29% | 39% | | 25% | | |
| APP/DEPART 181 / 446 173 / 208 122 / 200 542 / 164 | 0.946 64 0 | | 0.836 | E 40 | 200 | 0.8/1 | 100 | 200 | 0.940 | 470 | 446 | 0.870 | 101 | | |

Vicksburg

NORTH SIDE

98th

EAST SIDE

98th

WEST SIDE

SOUTH SIDE

Vicksburg

| | | | | PREF | PARED BY: | AimTD LLC | C. tel: 714 2 | 253 7888 cs | @aimtd.co | m | | | | |
|----|------------------------------|---------------------|----------|----------|---------------|-----------|---------------|-------------|-----------|----------|----------|---------------|---------|------------|
| | DATE: | LOCATION | | | LA | | | | | PROJECT | | SC1625 | | |
| | Thu, Feb 15, 18 | NORTH & EAST & W | | | Avion 98th | | | | | LOCATION | | 3 STOP ALL | | |
| | NOTES: | | | | | | | | | | AM | | | |
| | | | | | | | | | | | PM | | N | |
| | | | | | | | | | | | MD | ∢ W | | E 🕨 |
| | | | | | | | | | | | OTHER | | S | |
| | | | | | | | | | | | OTHER | | ▼ | |
| | | N | ORTHBOUN | ND | S | OUTHBOUN | ID | | EASTBOUN | D | | WESTBOUN | D | |
| | | | Avion | | | Avion | | | 98th | | | 98th | | |
| | LANES: | NL 0 | NT 1 | NR 0 | SL 0 | ST 2 | SR 0 | EL 1 | ET 1 | ER 0 | WL 1 | WT 1 | WR 0 | TOTAL |
| | 7:00 AM | 11 | 9 | 11 | 0 | 5 | 2 | 3 | 24 | 4 | 7 | 36 | 15 | 127 |
| | 7:15 AM | 10 | 10 | 11 | 0 | 3 | 2 | 4 | 16 | 7 | 5 | 38 | 5 | 111 |
| 1 | 7:30 AM | 14 | 6 | 13 | 0 | 2 | 1 | 4 | 27 | 4 | 8 | 33 | 11 | 123 |
| 1 | 7:45 AM | 11 | 14 | 12 | 1 | 6 | 3 | 3 | 15 | 10 | 17 | 37 | 12 | 141 |
| 1 | 8:00 AM | 20 | 7 | 9 | 1 | 4 | 0 | 3 | 10 | 6 | 6 | 58 | 11 | 135 |
| | 8:15 AM | 18 | 11 | 13 | 1 | 6 | 1 | 6 | 23 | 11 | 14 | 44 | 9 | 157 |
| | 8:30 AM | 17 | 9 | 15 | 2 | 5 | 3 | 5 4 | 28 | 9 | 10 | 42 | 11 | 156 |
| | 8:45 AM 9:00 AM | 11 15 | 9 | 12 13 | 1 | 4 | 4 | 4 | 30 40 | 11 10 | 10 18 | 46 41 | 9 13 | 151 172 |
| | 9:15 AM | 13 | 2 | 20 | 1 | 3 | 1 | 3 | 33 | 10 | 10 | 50 | 4 | 172 |
| AM | 9:30 AM | 12 | 1 | 19 | 3 | 3 | 2 | 1 | 21 | 13 | 9 | 47 | 8 | 145 |
| | 9:45 AM | 13 | 6 | 17 | 0 | 3 | 4 | 1 | 27 | 13 | 9 | 59 | 1 | 153 |
| | VOLUMES | 170 | 92 | 165 | 11 | 49 | 24 | 44 | 294 | 111 | 125 | 531 | 109 | 1,725 |
| | APPROACH % | 40% | 22% | 39% | 13% | 58% | 29% | 10% | 65% | 25% | 16% | 69% | 14% | |
| | APP/DEPART | 427 | / | 243 | 84 | / | 283 | 449 | / | 472 | 765 | / | 727 | 0 |
| | BEGIN PEAK HR | | 8:15 AM | | _ | | | | | | | | | |
| | VOLUMES | 61 | 37 | 53 | 5 | 20 | 9 | 22 | 121 | 41 | 52 | 173 | 42 | 636 |
| | APPROACH % | 40% | 25% | 35% | 15% | 59% | 26% | 12% | 66% | 22% | 19% | 65% | 16% | 0.024 |
| | PEAK HR FACTOR APP/DEPART | 151 | 0.899 | 99 | 34 | 0.850 | 111 | 184 | 0.807 | 181 | 267 | 0.927 | 245 | 0.924 |
| | 03:00 PM | 131 | 6 | 21 | 4 | 6 | 4 | 0 | 28 | 101 | 8 | 53 | 4 | 157 |
| | 3:15 PM | 14 | 3 | 17 | 1 | 2 | 2 | 1 | 28 | 10 | 7 | 58 | 4 | 148 |
| | 3:30 PM | 22 | 6 | 19 | 3 | 10 | 3 | 2 | 29 | 10 | 13 | 104 | 2 | 223 |
| | 3:45 PM | 15 | 7 | 16 | 5 | 10 | 5 | 2 | 39 | 8 | 15 | 55 | 4 | 181 |
| 1 | 4:00 PM | 25 | 3 | 19 | 2 | 16 | 8 | 0 | 35 | 12 | 7 | 72 | 1 | 200 |
| 1 | 4:15 PM | 12 | 3 | 28 | 9 | 11 | 2 | 3 | 45 | 12 | 13 | 36 | 1 | 175 |
| 1 | 4:30 PM | 8 | 4 | 23 | 5 | 13 | 3 | 0 | 34 | 8 | 9 | 53 | 1 | 161 |
| 1 | 4:45 PM | 20 | 2 | 18 | 1 | 9 | 6 | 4 | 38 | 4 | 11 | 80 | 3 | 196 |
| 1 | 5:00 PM | 26 | 2 | 30 | 8 | 9 | 6 | 1 | 42 | 9 | 16 | 53 | 1 | 203 |
| Μ | 5:15 PM 5:30 PM | 19 13 | 2 | 13 17 | 5 5 | 11 8 | 4 | 3 | 39 29 | 14 7 | 10 15 | 45 58 | 2 | 167 164 |
| 1 | 5:45 PM | 28 | 4 | 17 | 5 | 9 | 6 | 1 | 30 | 7 | 15 | 61 | 3 | 184 |
| | VOLUMES | 215 | 44 | 239 | 53 | 114 | 56 | 19 | 416 | 112 | 136 | 728 | 27 | 2,159 |
| 1 | APPROACH % | 43% | 9% | 48% | 24% | 51% | 25% | 3% | 76% | 20% | 15% | 82% | 3% | ., |
| 1 | APP/DEPART | 498 | 1 | 90 | 223 | / | 364 | 547 | / | 710 | 891 | / | 995 | 0 |
| 1 | BEGIN PEAK HR | | 3:30 PM | | | | | | | | | | | |
| 1 | VOLUMES | 74 | 19 | 82 | 19 | 47 | 18 | 7 | 148 | 42 | 48 | 267 | 8 | 779 |
| 1 | APPROACH % | 42% | 11% | 47% | 23% | 56% | 21% | 4% | 75% | 21% | 15% | 83% | 2% | |
| 1 | PEAK HR FACTOR | 175 | 0.931 | 24 | 0.6 | 0.808 | 107 | 107 | 0.821 | 240 | 222 | 0.679 | 252 | 0.873 |
| | APP/DEPART | 175 | / | 34 | 84 | / | 137 | 197 | / | 249 | 323 | / | 359 | 0 |

Avion

NORTH SIDE

98th

WEST SIDE

EAST SIDE

98th

SOUTH SIDE

Avion

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

| | <u>DATE:</u> Thu, Feb 15, 18 | LOCATION NORTH & EAST & W | SOUTH: | | LA Airport 98th | | | | | PROJECT ; LOCATION CONTROL: | #: | SC1530 4 SIGNAL | | |
|----|---------------------------------|---------------------------------|----------------------|------------|-----------------------|---------------------|----------|----------|-----------------|-----------------------------------|----------------------------------|-----------------------|------------------|------------|
| | NOTES: | | | | | | | | | | AM PM MD OTHER OTHER | ▲ W | A N S ▼ | E ► |
| | | N | IORTHBOUN Airport | ND | S | OUTHBOUN Airport | D | E | ASTBOUN 98th | D | | WESTBOUN 98th | D | |
| | LANES: | NL 1 | NT 2 | NR 1 | SL 1 | ST 3 | SR 0 | EL 1 | ET 1 | ER 0 | WL 1 | WT 1 | WR 0 | TOTAL |
| | 7:00 AM | 25 | 205 | 19 | 28 | 74 | 29 | 18 | 12 | 18 | 8 | 15 | 15 | 466 |
| | 7:15 AM | 19 | 215 | 17 | 39 | 77 | 33 | 9 | 5 | 10 | 10 | 10 | 15 | 459 |
| | 7:30 AM | 16 20 | 214 208 | 19 | 38 43 | 83 100 | 38 | 19 28 | 9 13 | 17 17 | 13 | 21 20 | 14 | 501 |
| | 7:45 AM | 20 | 208 | 25 37 | 43 39 | 94 | 52 | 28 | 7 | | 7 17 | 6 | 19 22 | 552 568 |
| | 8:00 AM 8:15 AM | 27 | 235 | 27 | 39 | 94 87 | 46 59 | 20 | 7 | 18 12 | 17 | 18 | 18 | 508 |
| | 8:30 AM | 17 | 227 | 27 | 35 | 97 | 59 | 25 | 10 | 12 | 11 | 15 | 18 | 537 |
| | 8:45 AM | 27 | 231 | 31 | 37 | 88 | 61 | 18 | 10 | 17 | 17 | 10 | 16 | 565 |
| | 9:00 AM | 25 | 207 | 17 | 29 | 95 | 50 | 16 | 21 | 17 | 9 | 15 | 21 | 517 |
| _ | 9:15 AM | 26 | 234 | 27 | 29 | 108 | 50 | 29 | 8 | 15 | 12 | 13 | 21 | 572 |
| AM | 9:30 AM | 15 | 219 | 18 | 22 | 116 | 55 | 23 | 12 | 21 | 11 | 8 | 23 | 543 |
| | 9:45 AM | 18 | 191 | 31 | 27 | 90 | 49 | 25 | 14 | 13 | 11 | 11 | 17 | 497 |
| 1 | VOLUMES | 255 | 2,608 | 291 | 399 | 1,109 | 576 | 248 | 130 | 183 | 144 | 162 | 219 | 6,324 |
| | APPROACH % | 8% | 83% | 9% | 19% | 53% | 28% | 44% | 23% | 33% | 27% | 31% | 42% | |
| | APP/DEPART | 3,154 | / | 3,077 | 2,084 | / | 1,444 | 561 | / | 818 | 525 | / | 985 | 0 |
| | Begin Peak Hr | | 8:00 AM | | | | | | | | | | | |
| | VOLUMES | 91 | 915 | 118 | 144 | 366 | 220 | 81 | 36 | 60 | 63 | 49 | 74 | 2,217 |
| | APPROACH % | 8% | 81% | 10% | 20% | 50% | 30% | 46% | 20% | 34% | 34% | 26% | 40% | |
| | PEAK HR FACTOR | 4.424 | 0.940 | 1.070 | 720 | 0.981 | 40.4 | 477 | 0.922 | 200 | 100 | 0.912 | 250 | 0.976 |
| | APP/DEPART | 1,124 | / | 1,070 | 730 | / | 491 | 177 | / | 298 | 186 | / | 358 | 0 |
| | 03:00 PM | 23 | 185 199 | 22 27 | 23 17 | 119 | 46 59 | 38 44 | 19 | 22 19 | 17 | 6 | 28 40 | 548 |
| - | 3:15 PM 3:30 PM | 14 22 | 203 | 27 | 20 | 132 148 | 59 88 | 44 38 | 10 24 | 28 | 19 18 | 9 19 | 40 91 | 589 723 |
| | 3:45 PM | 22 | 192 | 31 | 20 | 140 | 49 | 43 | 12 | 20 | 10 | 19 | 38 | 599 |
| | 4:00 PM | 18 | 215 | 25 | 20 | 123 | 44 | 33 | 12 | 30 | 19 | 15 | 55 | 614 |
| | 4:15 PM | 20 | 207 | 40 | 22 | 110 | 28 | 37 | 19 | 47 | 14 | 10 | 40 | 594 |
| | 4:30 PM | 15 | 226 | 32 | 9 | 134 | 48 | 35 | 23 | 36 | 16 | 15 | 72 | 661 |
| | 4:45 PM | 20 | 202 | 34 | 22 | 119 | 56 | 44 | 12 | 31 | 28 | 15 | 56 | 639 |
| | 5:00 PM | 16 | 189 | 29 | 9 | 107 | 36 | 50 | 31 | 26 | 36 | 18 | 93 | 640 |
| M | 5:15 PM | 18 | 183 | 17 | 9 | 139 | 38 | 28 | 17 | 31 | 22 | 6 | 55 | 563 |
| • | 5:30 PM | 14 | 183 | 21 | 11 | 111 | 54 | 35 | 15 | 29 | 24 | 17 | 59 | 573 |
| ļ | 5:45 PM | 29 | 170 | 26 | 13 | 140 | 42 | 39 | 20 | 24 | 17 | 13 | 45 | 578 |
| | VOLUMES | 232 | 2,354 | 328 | 198 | 1,511 | 588 | 464 | 221 | 348 | 247 | 158 | 672 | 7,321 |
| | APPROACH % | 8% | 81% | 11% | 9% | 66% | 26% | 45% | 21% | 34% | 23% | 15% | 62% | |
| | | 2,914 | | 3,491 | 2,297 | / | 2,111 | 1,033 | / | 746 | 1,077 | / | 973 | 0 |
| | Begin Peak Hr Volumes | 71 | 4:15 PM 824 | 125 | 62 | 470 | 168 | 166 | 85 | 140 | 94 | 58 | 261 | 2 524 |
| | APPROACH % | 71 7% | 824 80% | 135 13% | 62 9% | 470 67% | 24% | 42% | 85 22% | 140 36% | 94 23% | 58 14% | 261 63% | 2,534 |
| | PEAK HR FACTOR | / %0 | 0.943 | 1370 | 970 | 0.888 | 2470 | 4270 | 0.914 | 20%0 | 2370 | 0.702 | 0570 | 0.958 |
| | | | | | | | | | | | | | | |

Airport

NORTH SIDE

98th

WEST SIDE

EAST SIDE

98th

SOUTH SIDE

Airport

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

| | <u>DATE:</u> Thu, Feb 15, 18 | LOCATION NORTH & EAST & W | SOUTH: | | LA Bellanca 98th | | | | | PROJECT : LOCATION CONTROL: | #: | SC1625 5 STOP ALL | | |
|----|---------------------------------|---------------------------------|----------------------|---------|------------------------|----------------------|---------|---------|---------|-----------------------------------|----------------------------------|-------------------------|-------------|------------|
| | NOTES: | | | | | | | | | | AM PM MD OTHER OTHER | ▲ W | N S ▼ | E► |
| | | | ORTHBOUN Bellanca | | _ | OUTHBOUN Bellanca | - | | 98th | | | 98th | | |
| | LANES: | NL 1 | NT 1 | NR 0 | SL 0 | ST 1 | SR 0 | EL 1 | ET 1 | ER 0 | WL 0 | WT 0 | WR 0 | TOTAL |
| | 7:00 AM | 36 | 37 | 0 | 0 | 11 | 5 | 6 | 0 | 29 | 0 | 0 | 0 | 124 |
| | 7:15 AM | 29 | 35 | 0 | 0 | 15 | 3 | 8 | 0 | 31 | 0 | 0 | 0 | 121 |
| | 7:30 AM | 57 | 39 | 0 | 0 | 13 | 3 | 6 | 0 | 32 | 0 | 0 | 0 | 150 |
| | 7:45 AM | 63 | 32 | 0 | 0 | 11 | 1 | 6 | 0 | 33 | 0 | 0 | 0 | 146 |
| | 8:00 AM | 53 | 45 | 0 | 0 | 16 | 8 | 8 | 0 | 40 | 0 | 0 | 0 | 170 |
| | 8:15 AM | 63 | 32 | 0 | 1 | 15 | 8 | 8 | 0 | 24 | 0 | 0 | 0 | 151 |
| | 8:30 AM | 46 57 | 44 50 | 0 | 0 | 14 17 | 7 | 6 | 0 | 18 | 0 | 0 | 0 | 135 189 |
| | 8:45 AM 9:00 AM | 40 | 29 | 0 | 0 | 17 | 7 | 12 5 | 1 | 45 41 | 0 | 0 | 0 | 189 |
| _ | 9:15 AM | 37 | 50 | 0 | 0 | 14 | 6 | 8 | 0 | 35 | 0 | 0 | 0 | 131 |
| AM | 9:30 AM | 42 | 49 | 0 | 0 | 15 | 9 | 6 | 0 | 34 | 0 | 0 | 0 | 155 |
| | 9:45 AM | 28 | 52 | 0 | 0 | 13 | 5 | 8 | 0 | 40 | 0 | 0 | 0 | 155 |
| | VOLUMES | 551 | 494 | 1 | 1 | 170 | 63 | 87 | 1 | 402 | 0 | 0 | 0 | 1,770 |
| | APPROACH % | 53% | 47% | 0% | 0% | 73% | 27% | 18% | 0% | 82% | 0% | 0% | 0% | 1,770 |
| | APP/DEPART | 1,046 | 1/10 | 582 | 234 | / / | 573 | 490 | / | 2 | 0 | / | 613 | 0 |
| | BEGIN PEAK HR | 1/010 | 8:00 AM | 562 | 201 | 1 | 0.0 | | 1 | - | | 1 | 010 | - |
| | VOLUMES | 219 | 171 | 0 | 1 | 62 | 30 | 34 | 1 | 127 | 0 | 0 | 0 | 645 |
| | APPROACH % | 56% | 44% | 0% | 1% | 67% | 32% | 21% | 1% | 78% | 0% | 0% | 0% | |
| | PEAK HR FACTOR | | 0.911 | | - | 0.969 | | - | 0.698 | | | 0.000 | | 0.853 |
| | APP/DEPART | 390 | 1 | 206 | 93 | 1 | 189 | 162 | 1 | 1 | 0 | 1 | 249 | 0 |
| | 03:00 PM | 27 | 44 | 0 | 0 | 39 | 7 | 11 | 0 | 94 | 0 | 0 | 0 | 222 |
| | 3:15 PM | 27 | 37 | 0 | 0 | 42 | 10 | 7 | 0 | 74 | 0 | 0 | 0 | 197 |
| | 3:30 PM | 30 | 34 | 0 | 0 | 34 | 5 | 9 | 0 | 98 | 0 | 0 | 0 | 210 |
| | 3:45 PM | 21 | 20 | 0 | 0 | 28 | 2 | 8 | 0 | 80 | 0 | 0 | 0 | 159 |
| | 4:00 PM | 19 | 45 | 0 | 0 | 49 | 7 | 9 | 0 | 111 | 0 | 0 | 0 | 240 |
| | 4:15 PM | 28 | 32 | 0 | 0 | 37 | 6 | 5 | 0 | 92 | 0 | 0 | 0 | 200 |
| | 4:30 PM | 34 | 35 | 0 | 0 | 35 | 5 | 8 | 0 | 115 | 0 | 0 | 0 | 232 |
| | 4:45 PM | 29 | 39 | 0 | 1 | 44 | 6 | 16 | 0 | 101 | 0 | 0 | 0 | 236 |
| | 5:00 PM | 30 | 33 | 0 | 0 | 44 | 9 | 11 | 0 | 111 | 0 | 0 | 0 | 238 |
| Μ | 5:15 PM | 26 | 31 | 0 | 0 | 40 42 | 4 | 8 | 0 | 94 | 0 | 0 | 0 | 203 |
| - | 5:30 PM 5:45 PM | 21 15 | 28 34 | 0 | 0 | 42 | 6 | 11 5 | 0 | 84 84 | 0 | 0 | 0 | 192 186 |
| | 5:45 PM VOLUMES | 307 | 412 | 0 | 0 | 42 | 73 | 108 | 0 | 1,138 | 0 | 0 | 0 | 2,515 |
| | APPROACH % | 43% | 57% | 0% | 0% | 87% | 13% | 9% | 0% | 91% | 0% | 0% | 0% | 2,313 |
| | APPROACT % | 719 | 1 | 520 | 550 | / | 1,614 | 1,246 | / | 0 | 0 % | / | 381 | 0 |
| | BEGIN PEAK HR | /15 | 4:30 PM | 520 | 550 | 1 | 1,011 | 1/2 10 | 1 | 0 | 0 | 1 | 301 | |
| | VOLUMES | 119 | 138 | 0 | 1 | 163 | 24 | 43 | 0 | 421 | 0 | 0 | 0 | 909 |
| | APPROACH % | 46% | 54% | 0% | 1% | 87% | 13% | 9% | 0% | 91% | 0% | 0% | 0% | 505 |
| | PEAK HR FACTOR | | 0.931 | 0.0 | | 0.887 | 10 / 0 | | 0.943 | 52.00 | | 0.000 | 0.0 | 0.955 |
| | APP/DEPART | 257 | 1 | 182 | 188 | / | 584 | 464 | / | 0 | 0 | / | 143 | 0 |

Bellanca

NORTH SIDE

WEST SIDE

98th

EAST SIDE

98th

SOUTH SIDE

Bellanca

 PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

 LOCATION:
 LA

 NORTH & SOUTH:
 La Cienega

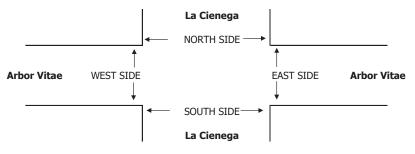
 LOCATION #:
 6

 FAST & WEST:
 Arbor Vitage

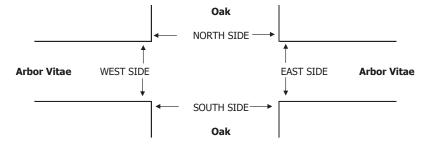
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DATE:

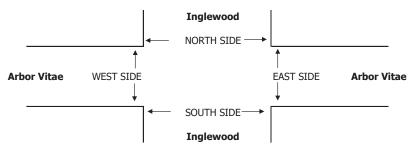
| | Thu, Feb 15, 18 | NORTH EAST & | & SOUTH WEST: | | La Cienega Arbor Vitae | | | | | LOCATIO | | 6 SIGNAL | | |
|----|-----------------|-----------------|------------------|-------|---------------------------|------------|--------|-------|-------------|---------|-------|-------------|----------|-------|
| | NOTES: | | | | | | | | | | AM | | | |
| | | | | | | | | | | | PM | | N | |
| | | | | | | | | | | | MD | ∢ W | 1 | E► |
| | | | | | | | | | | | OTHER | - | S | |
| | | | | | | | | | | | OTHER | | ▼ | |
| | | | | | | | | - | | | | | | 1 |
| | | INC | DRTHBOU | ND | | DUTHBOU | IND | E | ASTBOUN | ND | V | ESTBOUI | | |
| | | NL | La Cienega | NR | SL | La Cienega | SR | EL | Arbor Vitae | ER | WL | Arbor Vitae | WR | TOTAL |
| | LANES: | 1 | 2 | | 5L 1 | 2 | 0 0 | 1 | 2 | 0 | 1 | 2 | 1 VVR | TOTAL |
| | 7:00 AM | 141 | 251 | 19 | 15 | 48 | 19 | 13 | 33 | 22 | 34 | 248 | 85 | 928 |
| | 7:15 AM | 128 | 247 | 18 | 2 | 36 | 31 | 12 | 37 | 22 | 41 | 289 | 97 | 960 |
| | 7:30 AM | 130 | 271 | 37 | 4 | 47 | 41 | 14 | 38 | 23 | 43 | 291 | 91 | 1,030 |
| | 7:45 AM | 113 | 265 | 27 | 5 | 61 | 23 | 12 | 45 | 38 | 61 | 254 | 81 | 985 |
| | 8:00 AM | 132 | 322 | 32 | 5 | 75 | 30 | 14 | 54 | 29 | 50 | 189 | 62 | 994 |
| | 8:15 AM | 126 | 282 | 26 | 8 | 77 | 30 | 10 | 58 | 28 | 38 | 206 | 66 | 955 |
| | 8:30 AM | 113 | 233 | 26 | 11 | 71 | 53 | 12 | 49 | 35 | 37 | 159 | 51 | 850 |
| AM | 8:45 AM | 128 | 260 | 29 | 14 | 57 | 38 | 15 | 39 | 32 | 44 | 162 | 45 | 863 |
| A | VOLUMES | 1,011 | 2,131 | 214 | 64 | 472 | 265 | 102 | 353 | 229 | 348 | 1,798 | 578 | 7,565 |
| | APPROACH % | 30% | 63% | 6% | 8% | 59% | 33% | 15% | 52% | 33% | 13% | 66% | 21% | |
| | APP/DEPART | 3,356 | 1 | 2,809 | 801 | / | 1,049 | 684 | / | 631 | 2,724 | / | 3,076 | 0 |
| | BEGIN PEAK HR | | 7:15 AM | | | | | | | | | | | |
| | VOLUMES | 503 | 1,105 | 114 | 16 | 219 | 125 | 52 | 174 | 112 | 195 | 1,023 | 331 | 3,969 |
| | APPROACH % | 29% | 64% | 7% | 4% | 61% | 35% | 15% | 51% | 33% | 13% | 66% | 21% | |
| | PEAK HR FACTOR | | 0.886 | | | 0.818 | | | 0.871 | | | 0.907 | | 0.963 |
| | APP/DEPART | 1,722 | 1 | 1,487 | 360 | / | 526 | 338 | / | 304 | 1,549 | / | 1,652 | 0 |
| | 4:00 PM | 63 | 103 | 92 | 21 | 95 | 21 | 30 | 166 | 102 | 8 | 57 | 24 | 782 |
| | 4:15 PM | 45 | 129 | 98 | 23 | 113 | 15 | 56 | 179 | 83 | 14 | 67 | 22 | 844 |
| | 4:30 PM | 45 | 106 | 70 | 13 | 95 | 14 | 60 | 190 | 94 | 13 | 76 | 25 | 801 |
| | 4:45 PM | 47 | 108 | 83 | 8 | 113 | 19 | 55 | 180 | 88 | 15 | 71 | 16 | 803 |
| | 5:00 PM | 36 | 130 | 103 | 18 | 113 | 11 | 44 | 201 | 110 | 10 | 65 | 27 | 868 |
| | 5:15 PM | 38 | 160 | 108 | 18 | 122 | 11 | 54 | 172 | 93 | 8 | 66 | 20 | 870 |
| | 5:30 PM | 47 | 134 | 90 | 21 | 117 | 19 | 64 | 176 | 85 | 21 | 61 | 17 | 852 |
| М | 5:45 PM | 37 | 125 | 87 | 23 | 129 | 15 | 47 | 154 | 85 | 22 | 69 | 20 | 813 |
| • | VOLUMES | 358 | 995 | 731 | 145 | 897 | 125 | 410 | 1,418 | 740 | 111 | 532 | 171 | 6,633 |
| | APPROACH % | 17% | 48% | 35% | 12% | 77% | 11% | 16% | 55% | 29% | 14% | 65% | 21% | |
| | APP/DEPART | 2,084 | | 1,576 | 1,167 | / | 1,748 | 2,568 | / | 2,294 | 814 | / | 1,015 | 0 |
| | Begin peak hr | | 5:00 PM | | | | | | | | | | | |
| | VOLUMES | 158 | 549 | 388 | 80 | 481 | 56 | 209 | 703 | 373 | 61 | 261 | 84 | 3,403 |
| | APPROACH % | 14% | 50% | 35% | 13% | 78% | 9% | 16% | 55% | 29% | 15% | 64% | 21% | |
| | PEAK HR FACTOR | | 0.895 | | | 0.924 | | | 0.905 | | | 0.914 | | 0.978 |
| | APP/DEPART | 1,095 | | 842 | 617 | | 915 | 1,285 | | 1,171 | 406 | | 475 | 0 |



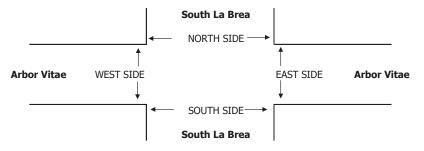
| | | | | PREPAR | RED BY: Ai | mTD LLC. | tel: 714 | 253 7888 | 3 cs@aim | td.com | - | | | |
|----|---------------------------------|---------------------------|---------|--------|--------------------------------|-----------|----------|----------|-------------|-----------------------------|-------|------------------------|-------|----------|
| | <u>DATE:</u> Thu, Feb 15, 18 | LOCATI NORTH EAST & | & SOUTH | : | Inglewood Oak Arbor Vita | | | | | PROJEC LOCATIC CONTRO | ON #: | SC1625 7 SIGNAL | | |
| | NOTES: | | | | | | | | | | AM | | | |
| | | | | | | | | | | | PM | | N | |
| | | | | | | | | | | | MD | ■ W | 1 | E► |
| | | | | | | | | | | | OTHER | <u> </u> | S | |
| | | | | | | | | | | | OTHER | | ▼ | |
| | | 1 | | | | | | | | | | | | |
| | | NO | ORTHBOU | ND | S | DUTHBOU | ND | E | ASTBOU | | V | /ESTBOUI Arbor Vita | | |
| | | NL | Oak | NR | SL | Oak ST | SR | EL | Arbor Vitae | ER | WL | WT | WR | TOTAL |
| | LANES: | | 1 | | 0 | 1 | 0 | 1 | 2 | | 1 | 2 | | TOTAL |
| | 7:00 AM | 49 | 4 | 1 | 4 | 2 | 45 | 7 | 64 | 1 | 0 | 252 | 4 | 433 |
| 1 | 7:15 AM | 57 | 6 | 2 | 7 | 2 | 82 | 9 | 48 | 2 | 2 | 203 | 2 | 422 |
| | 7:30 AM | 54 | 9 | 12 | 9 | 5 | 88 | 9 | 70 | 4 | 1 | 185 | 2 | 448 |
| | 7:45 AM | 52 | 22 | 4 | 16 | 3 | 69 | 7 | 75 | 2 | 3 | 198 | 7 | 458 |
| | 8:00 AM | 40 | 21 | 6 | 20 | 4 | 53 | 12 | 72 | 3 | 0 | 183 | 9 | 423 |
| | 8:15 AM | 43 | 9 | 3 | 16 | 10 | 40 | 7 | 82 | 7 | 3 | 203 | 9 | 432 |
| | 8:30 AM | 12 | 5 | 4 | 4 | 7 | 15 | 3 | 80 | 4 | 8 | 205 | 8 | 355 |
| - | 8:45 AM | 17 | 3 | 1 | 10 | 3 | 12 | 6 | 72 | 1 | 2 | 198 | 5 | 330 |
| AM | VOLUMES | 324 | 79 | 33 | 86 | 36 | 404 | 60 | 563 | 24 | 19 | 1,627 | 46 | 3,301 |
| | APPROACH % | 74% | 18% | 8% | 16% | 7% | 77% | 9% | 87% | 4% | 1% | 96% | 3% | 5,501 |
| | APP/DEPART | 436 | 1 | 185 | 526 | / | 79 | 647 | / | 682 | 1,692 | / | 2,355 | 0 |
| | BEGIN PEAK HR | | 7:30 AM | 100 | 010 | / | | • | 1 | 001 | 1/002 | 1 | 2,000 | <u> </u> |
| | VOLUMES | 189 | 61 | 25 | 61 | 22 | 250 | 35 | 299 | 16 | 7 | 769 | 27 | 1,761 |
| | APPROACH % | 69% | 22% | 9% | 18% | 7% | 75% | 10% | 85% | 5% | 1% | 96% | 3% | |
| | PEAK HR FACTOR | | 0.881 | | | 0.816 | | | 0.911 | | | 0.784 | | 0.961 |
| | APP/DEPART | 275 | 1 | 123 | 333 | / | 45 | 350 | / | 385 | 803 | / | 1,208 | 0 |
| | 4:00 PM | 5 | 8 | 2 | 11 | 4 | 12 | 6 | 213 | 6 | 1 | 84 | 10 | 362 |
| | 4:15 PM | 4 | 2 | 4 | 6 | 6 | 11 | 13 | 196 | 10 | 4 | 74 | 9 | 339 |
| | 4:30 PM | 10 | 7 | 6 | 9 | 9 | 14 | 12 | 190 | 4 | 1 | 95 | 10 | 367 |
| | 4:45 PM | 4 | 3 | 0 | 6 | 8 | 7 | 9 | 172 | 3 | 9 | 94 | 10 | 325 |
| | 5:00 PM | 6 | 2 | 3 | 13 | 6 | 9 | 11 | 182 | 5 | 9 | 89 | 16 | 351 |
| | 5:15 PM | 5 | 6 | 3 | 7 | 6 | 10 | 9 | 185 | 5 | 3 | 81 | 13 | 333 |
| | 5:30 PM | 8 | 12 | 3 | 10 | 8 | 5 | 12 | 173 | 6 | 4 | 72 | 13 | 326 |
| Μ | 5:45 PM | 9 | 7 | 5 | 14 | 13 | 12 | 17 | 171 | 10 | 5 | 84 | 14 | 361 |
| Ē | VOLUMES | 51 | 47 | 26 | 76 | 60 | 80 | 89 | 1,482 | 49 | 36 | 673 | 95 | 2,764 |
| 1 | APPROACH % | 41% | 38% | 21% | 35% | 28% | 37% | 5% | 91% | 3% | 4% | 84% | 12% | |
| 1 | APP/DEPART | 124 | 1 | 231 | 216 | / | 145 | 1,620 | / | 1,583 | 804 | / | 805 | 0 |
| | BEGIN PEAK HR | | 4:00 PM | | | | | | | | | | | |
| | VOLUMES | 23 | 20 | 12 | 32 | 27 | 44 | 40 | 771 | 23 | 15 | 347 | 39 | 1,393 |
| 1 | APPROACH % | 42% | 36% | 22% | 31% | 26% | 43% | 5% | 92% | 3% | 4% | 87% | 10% | |
| 1 | PEAK HR FACTOR | | 0.598 | | | 0.805 | | | 0.927 | | | 0.887 | | 0.949 |
| | APP/DEPART | 55 | 1 | 99 | 103 | / | 65 | 834 | | 815 | 401 | | 414 | 0 |



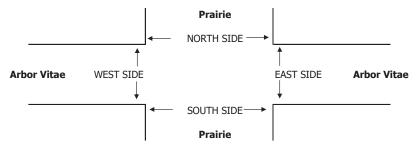
| | | | | PREPAR | RED BY: Ai | mTD LLC. | tel: 714 | 253 7888 | 3 cs@aim | td.com | _ | | | |
|----|---------------------------------|---------------------------|-----------|--------|--------------------------------------|-----------|----------|----------|-------------|-----------------------------|-------|-----------------------|----------|-------|
| | <u>DATE:</u> Thu, Feb 15, 18 | LOCATI NORTH EAST & | & SOUTH | : | Inglewood Inglewood Arbor Vita | | | | | PROJEC LOCATIO CONTRO | ON #: | SC1625 8 SIGNAL | | |
| | NOTES: | | | | | | | | | | AM | | | |
| | | | | | | | | | | | PM | | N | |
| | | | | | | | | | | | MD | ∢ W | | E 🕨 |
| | | | | | | | | | | | OTHER | | S | |
| | | | | | | | | | | | OTHER | | v | |
| | | NI | ORTHBOU | | L 6(| OUTHBOU | | | ASTBOU | | | /ESTBOUI | | |
| | | INC | Inglewood | ND | | Inglewood | ND | | Arbor Vitae | | | Arbor Vitae | | |
| | | NL | NT | NR | SL | ST | SR | EL | ET | ER | WL | WT | WR | TOTAL |
| | LANES: | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | |
| | 7:00 AM | 47 | 45 | 13 | 9 | 28 | 8 | 5 | 46 | 9 | 17 | 158 | 13 | 398 |
| | 7:15 AM | 40 | 54 | 19 | 8 | 39 | 11 | 6 | 52 | 12 | 12 | 154 | 15 | 422 |
| | 7:30 AM | 54 | 61 | 29 | 13 | 51 | 13 | 8 | 68 | 14 | 19 | 150 | 17 | 497 |
| | 7:45 AM | 55 | 67 | 18 | 19 | 54 | 21 | 9 | 75 | 15 | 23 | 131 | 14 | 501 |
| | 8:00 AM | 58 | 59 | 17 | 17 | 46 | 16 | 7 | 72 | 17 | 18 | 134 | 17 | 478 |
| | 8:15 AM | 52 | 49 | 15 | 12 | 34 | 12 | 8 | 73 | 15 | 21 | 132 | 18 | 441 |
| | 8:30 AM | 40 | 59 | 14 | 11 | 29 | 10 | 5 | 63 | 11 | 20 | 136 | 13 | 411 |
| 5 | 8:45 AM | 26 | 45 | 9 | 6 | 35 | 7 | 3 | 61 | 13 | 16 | 113 | 12 | 346 |
| AM | VOLUMES | 372 | 439 | 134 | 95 | 316 | 98 | 51 | 510 | 106 | 146 | 1,108 | 119 | 3,494 |
| | APPROACH % | 39% | 46% | 14% | 19% | 62% | 19% | 8% | 76% | 16% | 11% | 81% | 9% | , |
| | APP/DEPART | 945 | 1 | 609 | 509 | / | 568 | 667 | / | 739 | 1,373 | / | 1,578 | 0 |
| | BEGIN PEAK HR | | 7:30 AM | | | | | | | | | | | |
| | VOLUMES | 219 | 236 | 79 | 61 | 185 | 62 | 32 | 288 | 61 | 81 | 547 | 66 | 1,917 |
| | APPROACH % | 41% | 44% | 15% | 20% | 60% | 20% | 8% | 76% | 16% | 12% | 79% | 10% | |
| | PEAK HR FACTOR | | 0.927 | | | 0.819 | | | 0.962 | | | 0.933 | | 0.957 |
| | APP/DEPART | 534 | / | 334 | 308 | / | 327 | 381 | / | 428 | 694 | / | 828 | 0 |
| | 4:00 PM | 25 | 38 | 23 | 17 | 48 | 10 | 12 | 154 | 39 | 16 | 73 | 8 | 463 |
| | 4:15 PM | 20 | 57 | 31 | 11 | 50 | 7 | 7 | 145 | 30 | 18 | 67 | 17 | 460 |
| | 4:30 PM | 28 | 40 | 26 | 10 | 49 | 9 | 8 | 146 | 17 | 11 | 83 | 12 | 439 |
| | 4:45 PM | 26 | 35 | 27 | 14 | 81 | 13 | 11 | 123 | 24 | 17 | 76 | 10 | 457 |
| | 5:00 PM | 25 | 44 | 29 | 14 | 88 | 9 | 9 | 139 | 28 | 13 | 79 | 9 | 486 |
| | 5:15 PM | 28 | 40 | 30 | 15 | 73 | 6 | 9 | 139 | 27 | 13 | 78 | 15 | 473 |
| | 5:30 PM | 22 | 31 | 30 | 16 | 87 | 8 | 24 | 125 | 17 | 9 | 74 | 4 | 447 |
| Μd | 5:45 PM | 30 | 45 | 30 | 18 | 69 | 14 | 11 | 142 | 17 | 17 | 89 | 17 | 499 |
| • | VOLUMES | 204 | 330 | 226 | 115 | 545 | 76 | 91 | 1,113 | 199 | 114 | 619 | 92 | 3,724 |
| | APPROACH % | 27% | 43% | 30% | 16% | 74% | 10% | 6% | 79% | 14% | 14% | 75% | 11% | |
| | APP/DEPART | 760 | / | 513 | 736 | / | 858 | 1,403 | / | 1,454 | 825 | / | 899 | 0 |
| | BEGIN PEAK HR | | 5:00 PM | | | | | | | | | | | |
| | VOLUMES | 105 | 160 | 119 | 63 | 317 | 37 | 53 | 545 | 89 | 52 | 320 | 45 | 1,905 |
| | APPROACH % | 27% | 42% | 31% | 15% | 76% | 9% | 8% | 79% | 13% | 12% | 77% | 11% | |
| | PEAK HR FACTOR | | 0.914 | | | 0.939 | | | 0.976 | | | 0.848 | | 0.954 |
| | APP/DEPART | 384 | | 258 | 417 | | 458 | 687 | | 727 | 417 | | 462 | 0 |



| | | | | PREPAR | RED BY: Ai | mTD LLC. | tel: 714 | 253 7888 | 3 cs@aim | td.com | • | | | |
|----|---------------------------------|---------------------------|---------------|-------------|---------------------------------------|---------------|----------|----------|-------------|-----------------------------|-------|-----------------------|-------|-------|
| | <u>DATE:</u> Thu, Feb 15, 18 | LOCATI NORTH EAST & | & SOUTH | : | Inglewood South La I Arbor Vita | Brea | | | | PROJEC LOCATIO CONTRO | ON #: | SC1625 9 SIGNAL | | |
| | NOTES: | | | | | | | | | | AM | | | |
| | | | | | | | | | | | PM | | Ν | |
| | | | | | | | | | | | MD | ■ W | | E► |
| | | | | | | | | | | | OTHER | | S | |
| | | | | | | | | | | | OTHER | | ▼ | |
| | | N | ORTHBOU | IND | S | OUTHBOU | IND | l F | ASTBOU | ND | N N | /ESTBOUN | ND | 1 |
| | | ···· | South La Brea | | | South La Brea | | _ | Arbor Vitae | | | Arbor Vitae | | |
| | | NL | NT | NR | SL | ST | SR | EL | ET | ER | WL | WT | WR | TOTAL |
| | LANES: | 1 | 3 | 0 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | |
| | 7:00 AM | 47 | 153 | 3 | 13 | 95 | 31 | 18 | 42 | 22 | 15 | 86 | 16 | 541 |
| | 7:15 AM | 63 | 179 | 3 | 14 | 156 | 25 | 16 | 39 | 24 | 27 | 100 | 13 | 659 |
| | 7:30 AM | 50 | 208 | 8 | 16 | 158 | 29 | 21 | 42 | 29 | 18 | 96 | 14 | 689 |
| | 7:45 AM | 52 | 238 | 10 | 20 | 192 | 30 | 13 | 53 | 56 | 28 | 103 | 18 | 813 |
| | 8:00 AM | 48 | 234 | 13 | 22 | 224 | 32 | 16 | 57 | 46 | 21 | 74 | 11 | 798 |
| | 8:15 AM | 73 | 231 | 9 | 21 | 171 | 18 | 26 | 63 | 27 | 27 | 100 | 14 | 780 |
| | 8:30 AM | 67 | 199 | 6 | 34 | 143 | 20 | 20 | 55 | 27 | 26 | 92 | 14 | 703 |
| AM | 8:45 AM | 54 | 187 | 9 | 23 | 129 | 33 | 17 | 61 | 23 | 19 | 106 | 16 | 677 |
| ₹ | VOLUMES | 454 | 1,629 | 61 | 163 | 1,268 | 218 | 147 | 412 | 254 | 181 | 757 | 116 | 5,660 |
| | APPROACH % | 21% | 76% | 3% | 10% | 77% | 13% | 18% | 51% | 31% | 17% | 72% | 11% | |
| | APP/DEPART | 2,144 | | 1,909 | 1,649 | / | 1,716 | 813 | / | 619 | 1,054 | / | 1,416 | 0 |
| | BEGIN PEAK HR | | 7:45 AM | | | | | | | | | | | |
| | VOLUMES | 240 | 902 | 38 | 97 | 730 | 100 | 75 | 228 | 156 | 102 | 369 | 57 | 3,094 |
| | APPROACH % | 20% | 76% | 3% | 10% | 79% | 11% | 16% | 50% | 34% | 19% | 70% | 11% | 0.051 |
| | PEAK HR FACTOR | 1 1 0 0 | 0.942 | 1.042 | 927 | 0.834 | 996 | 459 | 0.941 | 354 | 528 | 0.886 | 701 | 0.951 |
| | APP/DEPART 4:00 PM | 1,180 | 151 | 1,043 24 | 26 | 192 | 996 | 459 | 79 | 354 | 23 | 61 | 23 | 699 |
| | 4:00 PM 4:15 PM | 38 | 151 | 24 | 32 | 192 | 12 | 27 | 88 | 50 | 19 | 66 | 23 | 711 |
| | 4:30 PM | 49 | 158 | 20 | 29 | 205 | 15 | 25 | 90 | 49 | 19 | 55 | 20 | 733 |
| 1 | 4:45 PM | 41 | 103 | 20 | 29 | 203 | 11 | 25 | 88 | 51 | 10 | 53 | 21 | 733 |
| 1 | 5:00 PM | 39 | 154 | 18 | 30 | 209 | 17 | 22 | 95 | 49 | 15 | 68 | 18 | 747 |
| | 5:15 PM | 45 | 163 | 20 | 25 | 227 | 19 | 17 | 104 | 47 | 20 | 64 | 10 | 770 |
| | 5:30 PM | 46 | 158 | 21 | 34 | 231 | 21 | 19 | 106 | 43 | 21 | 66 | 15 | 781 |
| 5 | 5:45 PM | 44 | 148 | 17 | 33 | 202 | 18 | 24 | 97 | 38 | 19 | 69 | 11 | 720 |
| ΡM | VOLUMES | 344 | 1,238 | 164 | 230 | 1,673 | 126 | 180 | 747 | 366 | 151 | 502 | 151 | 5,872 |
| 1 | APPROACH % | 20% | , 71% | 9% | 11% | 82% | 6% | 14% | 58% | 28% | 19% | 62% | 19% | |
| | APP/DEPART | 1,746 | 1 | 1,608 | 2,029 | / | 2,211 | 1,293 | / | 1,102 | 804 | / | 951 | 0 |
| | BEGIN PEAK HR | | 5:00 PM | | | | | | | | [| | | |
| | VOLUMES | 174 | 623 | 76 | 122 | 884 | 73 | 82 | 402 | 177 | 75 | 267 | 63 | 3,018 |
| | APPROACH % | 20% | 71% | 9% | 11% | 82% | 7% | 12% | 61% | 27% | 19% | 66% | 16% | |
| 1 | PEAK HR FACTOR | | 0.957 | | | 0.943 | | | 0.984 | | | 0.983 | | 0.966 |
| | APP/DEPART | 873 | 1 | 790 | 1,079 | / | 1,146 | 661 | / | 578 | 405 | / | 504 | 0 |



| | | | | PREPAR | RED BY: Ai | mTD LLC. | tel: 714 | 253 7888 | 3 cs@aim | td.com | - | | | |
|----|---------------------------------|---------------------------|---------|--------|------------------------------------|----------|----------|----------|-------------|-----------------------------|-------|------------------------|-----|-------|
| | <u>DATE:</u> Thu, Feb 15, 18 | LOCATI NORTH EAST & | & SOUTH | : | Inglewood Prairie Arbor Vita | | | | | PROJEC LOCATIO CONTRO | ON #: | SC1625 10 SIGNAL | | |
| | NOTES: | | | | | | | | | | AM | | | |
| | | | | | | | | | | | PM | | Ν | |
| | | | | | | | | | | | MD | ■ W | | E► |
| | | | | | | | | | | | OTHER | | S | |
| | | | | | | | | | | | OTHER | | ▼ | |
| | | NI | ORTHBOU | ND | C(| DUTHBOU | | | ASTBOUN | ID | 1 | /ESTBOUN | | |
| | | | Prairie | ND | | Prairie | | | Arbor Vitae | | | Arbor Vitae | | |
| | | NL | NT | NR | SL | ST | SR | EL | ET | ER | WL | WT | WR | TOTAL |
| | LANES: | 1 | 3 | 1 | 1 | 3 | 0 | 1 | 0.5 | 0.5 | 0 | 1 | 0 | |
| | 7:00 AM | 12 | 183 | 4 | 11 | 198 | 57 | 32 | 7 | 15 | 1 | 1 | 1 | 522 |
| | 7:15 AM | 16 | 233 | 4 | 6 | 198 | 48 | 29 | 5 | 34 | 2 | 0 | 0 | 575 |
| | 7:30 AM | 24 | 288 | 8 | 4 | 234 | 46 | 49 | 1 | 22 | 3 | 1 | 1 | 681 |
| | 7:45 AM | 29 | 290 | 5 | 5 | 274 | 55 | 34 | 0 | 27 | 3 | 0 | 0 | 722 |
| | 8:00 AM | 20 | 275 | 2 | 4 | 276 | 68 | 38 | 1 | 22 | 5 | 0 | 0 | 711 |
| | 8:15 AM | 28 | 273 | 7 | 4 | 176 | 68 | 57 | 0 | 23 | 3 | 0 | 3 | 642 |
| | 8:30 AM | 29 | 261 | 5 | 1 | 165 | 56 | 42 | 1 | 24 | 2 | 0 | 0 | 586 |
| - | 8:45 AM | 21 | 266 | 5 | 2 | 189 | 67 | 47 | 1 | 29 | 2 | 1 | 2 | 632 |
| AM | VOLUMES | 179 | 2,069 | 40 | 37 | 1,710 | 465 | 328 | 16 | 196 | 21 | 3 | 7 | 5,071 |
| | APPROACH % | 8% | 90% | 2% | 2% | 77% | 21% | 61% | 3% | 36% | 68% | 10% | 23% | - / - |
| | APP/DEPART | 2,288 | 1 | 2,405 | 2,212 | / | 1,928 | 540 | / | 92 | 31 | / | 646 | 0 |
| | BEGIN PEAK HR | | 7:30 AM | | | | | | | | | | | |
| | VOLUMES | 101 | 1,126 | 22 | 17 | 960 | 237 | 178 | 2 | 94 | 14 | 1 | 4 | 2,756 |
| | APPROACH % | 8% | 90% | 2% | 1% | 79% | 20% | 65% | 1% | 34% | 74% | 5% | 21% | |
| | PEAK HR FACTOR | | 0.964 | | | 0.872 | | | 0.856 | | | 0.792 | | 0.954 |
| | APP/DEPART | 1,249 | 1 | 1,309 | 1,214 | / | 1,069 | 274 | / | 40 | 19 | / | 338 | 0 |
| | 4:00 PM | 24 | 274 | 18 | 3 | 232 | 36 | 70 | 7 | 37 | 8 | 0 | 23 | 732 |
| | 4:15 PM | 20 | 277 | 4 | 1 | 249 | 33 | 86 | 3 | 26 | 23 | 3 | 25 | 750 |
| | 4:30 PM | 16 | 280 | 4 | 1 | 251 | 31 | 78 | 1 | 28 | 42 | 5 | 33 | 770 |
| | 4:45 PM | 18 | 288 | 3 | 1 | 252 | 26 | 68 | 2 | 31 | 19 | 6 | 19 | 733 |
| | 5:00 PM | 25 | 263 | 1 | 1 | 266 | 20 | 74 | 0 | 40 | 13 | 0 | 8 | 711 |
| | 5:15 PM | 32 | 284 | 0 | 0 | 261 | 22 | 89 | 1 | 35 | 5 | 1 | 8 | 738 |
| | 5:30 PM | 30 | 288 | 1 | 0 | 280 | 28 | 70 | 1 | 31 | 5 | 0 | 4 | 738 |
| РМ | 5:45 PM | 23 | 326 | 3 | 1 | 243 | 31 | 66 | 1 | 43 | 2 | 0 | 4 | 743 |
| • | VOLUMES | 188 | 2,280 | 34 | 8 | 2,034 | 227 | 601 | 16 | 271 | 117 | 15 | 124 | 5,915 |
| | APPROACH % | 8% | 91% | 1% | 0% | 90% | 10% | 68% | 2% | 31% | 46% | 6% | 48% | |
| | APP/DEPART | 2,502 | | 3,007 | 2,269 | / | 2,426 | 888 | / | 56 | 256 | / | 426 | 0 |
| | BEGIN PEAK HR | | 4:00 PM | | | 004 | 100 | | | | | | 100 | 2 005 |
| | VOLUMES | 78 | 1,119 | 29 | 6 | 984 | 126 | 302 | 13 | 122 | 92 | 14 | 100 | 2,985 |
| | APPROACH % | 6% | 91% | 2% | 1% | 88% | 11% | 69% | 3% | 28% | 45% | 7% | 49% | |
| | PEAK HR FACTOR | 1 226 | 0.970 | 1 522 | 1.110 | 0.986 | 1 200 | 427 | 0.950 | 47 | 200 | 0.644 | 210 | 0.969 |
| | APP/DEPART | 1,226 | / | 1,522 | 1,116 | / | 1,200 | 437 | / | 47 | 206 | / | 216 | 0 |



APPENDIX B:

LEVEL OF SERVICE (LOS) ANALYSIS SHEETS

EXISTING BASE

1: 98th Street & Sepulveda Blvd Performance by movement Interval #1 7:07

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.7 | 7.6 | 0.7 | 1.2 | 0.4 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #2 7:22

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.7 | 7.7 | 0.8 | 1.4 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #3 7:37

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.7 | 9.0 | 0.7 | 1.3 | 0.4 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #4 7:52

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.0 | 6.6 | 0.7 | 1.9 | 0.4 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Entire Run

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.5 | 8.3 | 0.7 | 1.5 | 0.4 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #1 5:00

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.1 | 0.3 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.3 | 6.7 | 0.6 | 0.8 | 0.4 | 0.6 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #2 5:15

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.1 | 0.4 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.8 | 9.4 | 0.6 | 0.9 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #3 5:30

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.1 | 0.3 | 0.1 | 0.1 |
| Total Del/Veh (s) | 0.9 | 7.2 | 0.5 | 0.9 | 0.4 | 0.6 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #4 5:45

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.5 | 8.7 | 0.5 | 0.8 | 0.5 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Entire Run

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.1 | 0.3 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.4 | 8.1 | 0.5 | 0.9 | 0.4 | 0.7 |

Intersection Delay, s/veh Intersection LOS

| า | 13 |
|---|----|
| | R |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ۳. | eî 👘 | | ሻ | ef 👘 | | | 4 | | | 4 | |
| Traffic Vol, veh/h | 47 | 97 | 41 | 72 | 80 | 311 | 23 | 50 | 63 | 70 | 79 | 22 |
| Future Vol, veh/h | 47 | 97 | 41 | 72 | 80 | 311 | 23 | 50 | 63 | 70 | 79 | 22 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 51 | 104 | 44 | 77 | 86 | 334 | 25 | 54 | 68 | 75 | 85 | 24 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 2 | | | 2 | | |
| HCM Control Delay | 10.6 | | | 15.2 | | | 10.7 | | | 11.7 | | |
| HCM LOS | В | | | С | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 17% | 100% | 0% | 100% | 0% | 41% |
| Vol Thru, % | 37% | 0% | 70% | 0% | 20% | 46% |
| Vol Right, % | 46% | 0% | 30% | 0% | 80% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 136 | 47 | 138 | 72 | 391 | 171 |
| LT Vol | 23 | 47 | 0 | 72 | 0 | 70 |
| Through Vol | 50 | 0 | 97 | 0 | 80 | 79 |
| RT Vol | 63 | 0 | 41 | 0 | 311 | 22 |
| Lane Flow Rate | 146 | 51 | 148 | 77 | 420 | 184 |
| Geometry Grp | 2 | 7 | 7 | 7 | 7 | 2 |
| Degree of Util (X) | 0.237 | 0.094 | 0.247 | 0.136 | 0.615 | 0.306 |
| Departure Headway (Hd) | 5.832 | 6.703 | 5.983 | 6.339 | 5.268 | 5.987 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Сар | 613 | 533 | 598 | 565 | 685 | 598 |
| Service Time | 3.895 | 4.462 | 3.741 | 4.086 | 3.014 | 4.046 |
| HCM Lane V/C Ratio | 0.238 | 0.096 | 0.247 | 0.136 | 0.613 | 0.308 |
| HCM Control Delay | 10.7 | 10.2 | 10.7 | 10.1 | 16.1 | 11.7 |
| HCM Lane LOS | В | В | В | В | С | В |
| HCM 95th-tile Q | 0.9 | 0.3 | 1 | 0.5 | 4.2 | 1.3 |

Intersection Delay, s/veh Intersection LOS

15.1

С

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | eî 👘 | | ٦ | eî 👘 | | | \$ | | | \$ | |
| Traffic Vol, veh/h | 17 | 79 | 26 | 87 | 91 | 364 | 46 | 64 | 71 | 51 | 94 | 28 |
| Future Vol, veh/h | 17 | 79 | 26 | 87 | 91 | 364 | 46 | 64 | 71 | 51 | 94 | 28 |
| Peak Hour Factor | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 18 | 83 | 27 | 92 | 96 | 383 | 48 | 67 | 75 | 54 | 99 | 29 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 2 | | | 2 | | |
| HCM Control Delay | 10.5 | | | 18.4 | | | 11.6 | | | 11.8 | | |
| HCM LOS | В | | | С | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 25% | 100% | 0% | 100% | 0% | 29% |
| Vol Thru, % | 35% | 0% | 75% | 0% | 20% | 54% |
| Vol Right, % | 39% | 0% | 25% | 0% | 80% | 16% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 181 | 17 | 105 | 87 | 455 | 173 |
| LT Vol | 46 | 17 | 0 | 87 | 0 | 51 |
| Through Vol | 64 | 0 | 79 | 0 | 91 | 94 |
| RT Vol | 71 | 0 | 26 | 0 | 364 | 28 |
| Lane Flow Rate | 191 | 18 | 111 | 92 | 479 | 182 |
| Geometry Grp | 2 | 7 | 7 | 7 | 7 | 2 |
| Degree of Util (X) | 0.311 | 0.035 | 0.193 | 0.162 | 0.706 | 0.306 |
| Departure Headway (Hd) | 5.884 | 6.968 | 6.281 | 6.38 | 5.305 | 6.04 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Сар | 608 | 512 | 569 | 561 | 680 | 592 |
| Service Time | 3.95 | 4.737 | 4.049 | 4.127 | 3.052 | 4.106 |
| HCM Lane V/C Ratio | 0.314 | 0.035 | 0.195 | 0.164 | 0.704 | 0.307 |
| HCM Control Delay | 11.6 | 10 | 10.6 | 10.4 | 19.9 | 11.8 |
| HCM Lane LOS | В | А | В | В | С | В |
| HCM 95th-tile Q | 1.3 | 0.1 | 0.7 | 0.6 | 5.8 | 1.3 |

| Intersection | |
|-----------------------------------------------|-----|
| Intersection Delay, s/veh | 9.8 |
| Intersection Delay, s/veh Intersection LOS | А |
| | |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | ef 👘 | | ٦ | ef 🕺 | | | 4î b | | | 4î b | |
| Traffic Vol, veh/h | 22 | 121 | 41 | 52 | 173 | 42 | 61 | 37 | 53 | 5 | 20 | 9 |
| Future Vol, veh/h | 22 | 121 | 41 | 52 | 173 | 42 | 61 | 37 | 53 | 5 | 20 | 9 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 24 | 132 | 45 | 57 | 188 | 46 | 66 | 40 | 58 | 5 | 22 | 10 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 2 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 9.7 | | | 10.2 | | | 9.4 | | | 8.8 | | |
| HCM LOS | А | | | В | | | А | | | А | | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Vol Left, % | 77% | 0% | 100% | 0% | 100% | 0% | 33% | 0% | |
| Vol Thru, % | 23% | 26% | 0% | 75% | 0% | 80% | 67% | 53% | |
| Vol Right, % | 0% | 74% | 0% | 25% | 0% | 20% | 0% | 47% | |
| Sign Control | Stop | |
| Traffic Vol by Lane | 80 | 72 | 22 | 162 | 52 | 215 | 15 | 19 | |
| LT Vol | 61 | 0 | 22 | 0 | 52 | 0 | 5 | 0 | |
| Through Vol | 19 | 19 | 0 | 121 | 0 | 173 | 10 | 10 | |
| RT Vol | 0 | 53 | 0 | 41 | 0 | 42 | 0 | 9 | |
| Lane Flow Rate | 86 | 78 | 24 | 176 | 57 | 234 | 16 | 21 | |
| Geometry Grp | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| Degree of Util (X) | 0.148 | 0.114 | 0.039 | 0.254 | 0.091 | 0.334 | 0.028 | 0.032 | |
| Departure Headway (Hd) | 6.169 | 5.259 | 5.882 | 5.201 | 5.786 | 5.145 | 6.137 | 5.633 | |
| Convergence, Y/N | Yes | |
| Сар | 578 | 676 | 605 | 685 | 616 | 694 | 578 | 629 | |
| Service Time | 3.945 | 3.033 | 3.653 | 2.97 | 3.549 | 2.909 | 3.931 | 3.426 | |
| HCM Lane V/C Ratio | 0.149 | 0.115 | 0.04 | 0.257 | 0.093 | 0.337 | 0.028 | 0.033 | |
| HCM Control Delay | 10 | 8.7 | 8.9 | 9.8 | 9.1 | 10.5 | 9.1 | 8.6 | |
| HCM Lane LOS | А | А | А | А | А | В | А | А | |
| HCM 95th-tile Q | 0.5 | 0.4 | 0.1 | 1 | 0.3 | 1.5 | 0.1 | 0.1 | |

| Intersection | |
|---------------------------|------|
| Intersection Delay, s/veh | 11.9 |
| Intersection LOS | В |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|
| Lane Configurations | ٦ | eî 🕺 | | ሻ | eî 👘 | | | 4î îr | | | 4î b | |
| Traffic Vol, veh/h | 7 | 148 | 42 | 48 | 267 | 8 | 74 | 19 | 82 | 19 | 47 | 18 |
| Future Vol, veh/h | 7 | 148 | 42 | 48 | 267 | 8 | 74 | 19 | 82 | 19 | 47 | 18 |
| Peak Hour Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 170 | 48 | 55 | 307 | 9 | 85 | 22 | 94 | 22 | 54 | 21 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 2 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 11.6 | | | 13.5 | | | 10.3 | | | 9.9 | | |
| HCM LOS | В | | | В | | | В | | | А | | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Vol Left, % | 89% | 0% | 100% | 0% | 100% | 0% | 45% | 0% | |
| Vol Thru, % | 11% | 10% | 0% | 78% | 0% | 97% | 55% | 57% | |
| Vol Right, % | 0% | 90% | 0% | 22% | 0% | 3% | 0% | 43% | |
| Sign Control | Stop | |
| Traffic Vol by Lane | 84 | 92 | 7 | 190 | 48 | 275 | 43 | 42 | |
| LT Vol | 74 | 0 | 7 | 0 | 48 | 0 | 19 | 0 | |
| Through Vol | 10 | 10 | 0 | 148 | 0 | 267 | 24 | 24 | |
| RT Vol | 0 | 82 | 0 | 42 | 0 | 8 | 0 | 18 | |
| Lane Flow Rate | 96 | 105 | 8 | 218 | 55 | 316 | 49 | 48 | |
| Geometry Grp | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| Degree of Util (X) | 0.182 | 0.167 | 0.014 | 0.352 | 0.096 | 0.504 | 0.092 | 0.083 | |
| Departure Headway (Hd) | 6.815 | 5.729 | 6.459 | 5.797 | 6.26 | 5.735 | 6.785 | 6.249 | |
| Convergence, Y/N | Yes | |
| Сар | 526 | 626 | 554 | 620 | 573 | 629 | 528 | 572 | |
| Service Time | 4.559 | 3.472 | 4.197 | 3.534 | 3.993 | 3.467 | 4.534 | 3.998 | |
| HCM Lane V/C Ratio | 0.183 | 0.168 | 0.014 | 0.352 | 0.096 | 0.502 | 0.093 | 0.084 | |
| HCM Control Delay | 11.1 | 9.6 | 9.3 | 11.7 | 9.7 | 14.2 | 10.2 | 9.6 | |
| HCM Lane LOS | В | А | А | В | А | В | В | А | |
| HCM 95th-tile Q | 0.7 | 0.6 | 0 | 1.6 | 0.3 | 2.8 | 0.3 | 0.3 | |



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Level of Service Workheet (Circular 212 Method)



| I/S #: 4 | PROJECT TITLE: Century Trunk North-South Street: Airport Boulev | | East-We | st Street: | 98th Street | | |
|-------------|--------------------------------------------------------------------|--------|-------------------|----------------|-------------|------------------|----------------|
| | Scenario: Existing Count Date: 1/0/1900 | | Analyst: | Fehr & Peers | Date: | | 3/23/2018 |
| | | | AM | | | PM | |
| | No. of Phases | | AlVI | 2 | | FIVI | 2 |
| | Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | 0 |
| | Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB 0 | SB | 0 | NB 0 | SB | 0 |
| | ATSAC-1 or ATSAC+ATCS-2? | EB 0 | WB | 0 2 | EB 0 | WB | 0 2 |
| | Override Capacity | | | 0 | | | 0 |
| | MOVEMENT | Volume | No. of Lanes | Lane Volume | Volume | No. of Lanes | Lane Volume |
| Δ | ົ້ Left | 91 | 1 | 91 | 71 | 1 | 71 |
| N | Left-Through | 045 | 0 | 450 | 004 | 0 | 440 |
| BO | ↑ Through ☆ Through-Right | 915 | 2 0 | 458 | 824 | 2 0 | 412 |
| H | Right | 118 | 1 | 87 | 135 | 1 | 88 |
| NORTHBOUND | ↓→ Left-Through-Right | | 0 | | | 0 | |
| ~ | Left-Right | | 0 | | | 0 | |
| | ∿⊲ Left | 144 | 1 | 144 | 62 | 1 | 62 |
| Q | Left-Through | 144 | 0 | 144 | 02 | 0 | 02 |
| NO. | ↓ Through | 366 | 2 | 183 | 470 | 2 | 213 |
| | Through-Right | | 1 | 100 | 100 | 1 | |
| SOUTHBOUND | ✓ Right ✓ Left-Through-Right | 220 | 0 0 | 180 | 168 | 0 0 | 168 |
| S S | Left-Right | | 0 | | | 0 | |
| | | | | | | | |
| Δ | | 81 | 1 0 | 81 | 166 | 1 0 | 166 |
| NN | \rightarrow Through | 36 | 1 | 36 | 85 | 1 | 85 |
| EASTBOUND | → Through-Right | | 0 | | | 0 | |
| AST | Right | 60 | 1 | 15 | 140 | 1 | 105 |
| Ē | <pre></pre> | | 0 | | | 0 | |
| | | | v | | I | v | |
| 0 | | 63 | 1 | 63 | 94 | 1 | 94 |
| | ✓ Left-Through | 49 | 0 | 400 | EO | 0 | 040 |
| BOI | ← Through ← Through-Right | 49 | 1 | 123 | 58 | 1 | 319 |
| WESTBOUND | Right | 74 | 0 | 0 | 261 | 0 | 0 |
| ME | Left-Through-Right | | 0 | | | 0 | |
| | ⊱ Left-Right | Α. | 0 Iorth-South: | 602 | | 0 orth-South: | 474 |
| | CRITICAL VOLUMES | | East-West: | 204 | | East-West: | 474 |
| | | | SUM: | 806 | | SUM: | 959 |
| | VOLUME/CAPACITY (V/C) RATIO: | | | 0.537 | | | 0.639 |
| V/ | C LESS ATSAC/ATCS ADJUSTMENT: | | | 0.437 | | | 0.539 |
| | LEVEL OF SERVICE (LOS): | | | Α | | | Α |

Version: 1i Beta; 8/4/2011

| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
|----------------------------|------|------|------|------|------|------|--|
| Lane Configurations | ٦ | 1 | ሻ | • | ef 🔰 | | |
| Traffic Vol, veh/h | 34 | 127 | 219 | 171 | 62 | 30 | |
| Future Vol, veh/h | 34 | 127 | 219 | 171 | 62 | 30 | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 40 | 149 | 258 | 201 | 73 | 35 | |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 0 | |
| Approach | EB | | NB | | SB | | |
| Opposing Approach | | | SB | | NB | | |
| Opposing Lanes | 0 | | 1 | | 2 | | |
| Conflicting Approach Left | SB | | EB | | | | |
| Conflicting Lanes Left | 1 | | 2 | | 0 | | |
| Conflicting Approach Right | NB | | | | EB | | |
| Conflicting Lanes Right | 2 | | 0 | | 2 | | |
| HCM Control Delay | 9.5 | | 11.2 | | 9.2 | | |
| HCM LOS | А | | В | | А | | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 0% | 0% | 67% |
| Vol Right, % | 0% | 0% | 0% | 100% | 33% |
| Sign Control | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 219 | 171 | 34 | 127 | 92 |
| LT Vol | 219 | 0 | 34 | 0 | 0 |
| Through Vol | 0 | 171 | 0 | 0 | 62 |
| RT Vol | 0 | 0 | 0 | 127 | 30 |
| Lane Flow Rate | 258 | 201 | 40 | 149 | 108 |
| Geometry Grp | 7 | 7 | 7 | 7 | 4 |
| Degree of Util (X) | 0.404 | 0.287 | 0.071 | 0.216 | 0.155 |
| Departure Headway (Hd) | 5.638 | 5.135 | 6.419 | 5.208 | 5.149 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes |
| Сар | 636 | 696 | 556 | 686 | 692 |
| Service Time | 3.394 | 2.891 | 4.177 | 2.966 | 3.217 |
| HCM Lane V/C Ratio | 0.406 | 0.289 | 0.072 | 0.217 | 0.156 |
| HCM Control Delay | 12.2 | 10 | 9.7 | 9.4 | 9.2 |
| HCM Lane LOS | В | А | А | А | А |
| HCM 95th-tile Q | 2 | 1.2 | 0.2 | 0.8 | 0.5 |

| Intersection | |
|---------------------------|------|
| Intersection Delay, s/veh | 13.9 |
| Intersection LOS | В |

| Lane Configurations Image: Configuration in the image: Configuration in the image: Configuration in the image: Configuration in the image: Conflicting Lanes Left Image: Configuration in the image: Conflicting Lanes Left Image: Configuration in the image: Configuration in the image: Conflicting Lanes Left Image: Configuration in the image: Configuration in the image: Conflicting Lanes Left Image: Configuration in the image: Configuration in the image: Configuration in the image: Conflicting Lanes Left Image: Configuration in the image: Confi |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Future Vol, veh/h 43 421 119 138 163 24 Peak Hour Factor 0.95 0.95 0.95 0.95 0.95 0.95 0.95 Heavy Vehicles, % 2 2 2 2 2 2 2 Mvmt Flow 45 443 125 145 172 25 Number of Lanes 1 1 1 1 0 Approach EB NB SB SB Opposing Approach SB NB 0 2 Conflicting Approach Left SB EB Conflicting Lanes Left 1 2 0 |
| Peak Hour Factor 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 0.95 |
| Heavy Vehicles, % 2 2 2 2 2 2 2 2 2 Mvmt Flow 45 443 125 145 172 25 Number of Lanes 1 1 1 1 1 0 Approach EB NB SB NB Opposing Approach SB NB 0 Opposing Lanes 0 1 2 0 Conflicting Approach Left SB EB 0 0 |
| Mvmt Flow 45 443 125 145 172 25 Number of Lanes 1 1 1 1 1 1 0 Approach EB NB SB NB Opposing Approach SB NB Opposing Lanes 0 1 2 Conflicting Approach Left SB EB Conflicting Lanes Left 1 2 0 |
| Number of Lanes11110ApproachEBNBSBOpposing ApproachSBNBOpposing Lanes012Conflicting Approach LeftSBEBConflicting Lanes Left120 |
| ApproachEBNBSBOpposing ApproachSBNBOpposing Lanes012Conflicting Approach LeftSBEBConflicting Lanes Left120 |
| Opposing ApproachSBNBOpposing Lanes012Conflicting Approach LeftSBEBConflicting Lanes Left120 |
| Opposing Lanes012Conflicting Approach LeftSBEBConflicting Lanes Left120 |
| Conflicting Approach LeftSBEBConflicting Lanes Left120 |
| Conflicting Lanes Left 1 2 0 |
| |
| |
| Conflicting Approach Right NB EB |
| Conflicting Lanes Right 2 0 2 |
| HCM Control Delay 16.1 11.2 12 |
| HCM LOS C B B |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 0% | 0% | 87% |
| Vol Right, % | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 119 | 138 | 43 | 421 | 187 |
| LT Vol | 119 | 0 | 43 | 0 | 0 |
| Through Vol | 0 | 138 | 0 | 0 | 163 |
| RT Vol | 0 | 0 | 0 | 421 | 24 |
| Lane Flow Rate | 125 | 145 | 45 | 443 | 197 |
| Geometry Grp | 7 | 7 | 7 | 7 | 4 |
| Degree of Util (X) | 0.233 | 0.249 | 0.081 | 0.64 | 0.329 |
| Departure Headway (Hd) | 6.687 | 6.18 | 6.411 | 5.199 | 6.017 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes |
| Сар | 537 | 581 | 559 | 696 | 598 |
| Service Time | 4.426 | 3.918 | 4.143 | 2.931 | 4.055 |
| HCM Lane V/C Ratio | 0.233 | 0.25 | 0.081 | 0.636 | 0.329 |
| HCM Control Delay | 11.5 | 11 | 9.7 | 16.8 | 12 |
| HCM Lane LOS | В | В | А | С | В |
| HCM 95th-tile Q | 0.9 | 1 | 0.3 | 4.6 | 1.4 |

| Project Title: Intersection: Description: | - | - | e Project ulevard & Arbo | or Vitae Street | | | |
|-------------------------------------------------------------------------------------|-----------------------|----------------------|-----------------------------|-------------------------|---------------------------|---------------------------------------------------------------------|-----------------------------|
| Thru Lane Left Lane Double Lt Penalty ITS OLA Movements FF Movements | : 1600 : 20 : 0 | | | | E-W Lost Time | Split Phase : Split Phase : (% of cycle) : d Off (decs.) : | N N 10 3 |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT TH LT | 0.00 2.00 1.00 | 125 219 16 | 0 3,200 1,600 | 0.000 0.108 * 0.010 | N-S(1): N-S(2): E-W(1): | 0.391 0.422 * 0.211 |
| Westbound | RT TH LT | 1.00 2.00 1.00 | 331 1,023 195 | 1,600 3,200 1,600 | 0.207 0.320 * 0.122 | E-W(2): V/C: | 0.353 * |
| Northbound | RT TH LT | 0.00 2.00 1.00 | 114 1,105 503 | 0 3,200 1,600 | 0.000 0.381 0.314 * | Lost Time: ITS: | 0.100 0.000 |
| Eastbound | RT TH LT | 0.00 2.00 1.00 | 112 174 52 | 0 3,200 1,600 | 0.000 0.089 0.033 * | ICU: LOS: | 0.875 D |
| Date/Time: | PM PEA | K HOUR | | | | • | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT TH LT | 0.00 2.00 1.00 | 56 481 80 | 0 3,200 1,600 | 0.000 0.168 0.050 * | N-S(1): N-S(2): E-W(1): | 0.343 * 0.267 0.374 * |
| Westbound | RT TH LT | 1.00 2.00 1.00 | 84 261 61 | 1,600 3,200 1,600 | 0.053 0.082 0.038 * | E-W(2): V/C: | 0.213 0.717 |
| Northbound | RT TH LT | 0.00 2.00 1.00 | 388 549 158 | 0 3,200 1,600 | 0.000 0.293 * 0.099 | Lost Time: ITS: | 0.100 0.000 |
| Eastbound | RT TH LT | 0.00 2.00 1.00 | 373 703 209 | 0 3,200 1,600 | 0.000 0.336 * 0.131 | ICU: LOS: | 0.817 D |

| Project Title: Intersection: Description: | - | | e Project bor Vitae Stre | et | | | |
|-------------------------------------------------|--------|--------|-----------------------------|----------|------------------|--------------------|------------------|
| Thru Lane | : 1600 | vph | | | N-S | Split Phase : | Y |
| Left Lane | | • | | | | ′ Split Phase : | Ν |
| Double Lt Penalty | | % | | | Lost Time | (% of cycle) : | 10 |
| ITS | : 0 | % | | | V/C Roun | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 250 | 1,600 | 0 1 4 5 * | N S(1): | 0.217 * |
| Southbound | TH | 0.27 | 250 22 | 424 | 0.145 * 0.052 | N-S(1): N-S(2): | 0.317 * 0.000 |
| | LT | 0.27 | 61 | 1,176 | 0.052 | E-W(1): | 0.000 |
| Westbound | RT | 0.73 | 27 | 0 | 0.000 | E-W(1): | 0.102 |
| Westbound | TH | 2.00 | 769 | 3,200 | 0.249 * | L-VV(Z). | 0.271 |
| | LT | 1.00 | 705 | 1,600 | 0.004 | V/C: | 0.588 |
| Northbound | RT | 0.00 | 25 | 0 | 0.000 | Lost Time: | 0.100 |
| Northboand | ТН | 1.00 | 61 | 1,600 | 0.172 * | ITS: | 0.000 |
| | LT | 0.00 | 189 | 1,600 | 0.118 | | 0.000 |
| Eastbound | RT | 0.00 | 16 | 0 | 0.000 | ICU: | 0.688 |
| | TH | 2.00 | 299 | 3,200 | 0.098 | | |
| | LT | 1.00 | 35 | 1,600 | 0.022 * | LOS: | В |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 44 | 1,600 | 0.015 | N-S(1): | 0.071 * |
| Coulibound | ТН | 0.46 | 27 | 732 | 0.037 | N-S(2): | 0.000 |
| | LT | 0.54 | 32 | 868 | 0.037 * | E-W(1): | 0.257 * |
| Westbound | RT | 0.00 | 39 | 0 | 0.000 | E-W(2): | 0.146 |
| | TH | 2.00 | 347 | 3,200 | 0.121 | (_). | |
| | LT | 1.00 | 15 | 1,600 | 0.009 * | V/C: | 0.328 |
| Northbound | RT | 0.00 | 12 | 0 | 0.000 | Lost Time: | 0.100 |
| | ТН | 1.00 | 20 | 1,600 | 0.034 * | ITS: | 0.000 |
| | LT | 0.00 | 23 | 1,600 | 0.014 | | |
| Eastbound | RT | 0.00 | 23 | 0 | 0.000 | ICU: | 0.428 |
| | TH | 2.00 | 771 | 3,200 | 0.248 * | | |
| | LT | 1.00 | 40 | 1,600 | 0.025 | LOS: | А |

| Project Title: Intersection: Description: | - | | e Project nue & Arbor V | itae Street | | | |
|-------------------------------------------------|---------|--------|----------------------------|-------------------|------------------|--------------------|---------|
| Thru Lane | e: 1600 | vph | | | N-S | Split Phase : | Y |
| Left Lane | | • | | | E-W | Split Phase : | Ν |
| Double Lt Penalty | | • | | | Lost Time | (% of cycle) : | 10 |
| ITS | S: 0 | % | | | V/C Round | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.25 | 62 | 402 | 0.144 | N 0(4). | 0.351 * |
| Soumbound | TH | 0.25 | 62 185 | | 0.144 0.154 * | N-S(1): | 0.351 |
| | LT | 1.00 | 61 | 1,198 | 0.154 0.038 | N-S(2): | 0.000 |
| Westbound | RT | 0.00 | 66 | <u>1,600</u> 0 | 0.000 | E-W(1): E-W(2): | 0.100 |
| vvestbound | TH | 2.00 | 547 | 3,200 | 0.000 * | ⊏-vv(∠). | 0.212 |
| | LT | 2.00 | 81 | 1,600 | 0.192 | V/C: | 0.563 |
| Northbound | RT | 0.25 | 79 | 401 | 0.051 | Lost Time: | 0.565 |
| Northbound | TH | 0.25 | 236 | 1,199 | 0.172 | ITS: | 0.000 |
| | LT | 1.00 | 230 | 1,600 | 0.197 | 113. | 0.000 |
| Eastbound | RT | 0.00 | 61 | 0 | 0.000 | ICU: | 0.663 |
| Lasibound | TH | 2.00 | 288 | 3,200 | 0.109 | 100. | 0.005 |
| | LT | 1.00 | 32 | 1,600 | 0.020 * | LOS: | В |
| Date/Time: | PM PEA | K HOUR | | | | 1 | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.10 | 37 | 167 | 0.205 | N-S(1): | 0.395 * |
| Southbound | TH | 0.90 | 317 | 1,433 | 0.203 | N-S(2): | 0.000 |
| | LT | 1.00 | 63 | 1,600 | 0.039 | E-W(1): | 0.231 * |
| Westbound | RT | 0.00 | 45 | 0 | 0.000 | E-W(2): | 0.147 |
| | TH | 2.00 | 320 | 3,200 | 0.000 | | 0.177 |
| | LT | 1.00 | 520 | 1,600 | 0.033 * | V/C: | 0.626 |
| Northbound | RT | 0.43 | 119 | 682 | 0.158 | Lost Time: | 0.100 |
| | TH | 0.57 | 160 | 918 | 0.130 | ITS: | 0.000 |
| | LT | 1.00 | 105 | 1,600 | 0.066 | | 0.000 |
| Eastbound | RT | 0.00 | 89 | 0 | 0.000 | ICU: | 0.726 |
| Laotoounu | ТН | 2.00 | 545 | 3,200 | 0.198 * | | 0.720 |
| | LT | 1.00 | 53 | 1,600 | 0.033 | LOS: | С |

| Project Title: Intersection: Description: | | | e Project Ave & Arbor V | itae Street | | | |
|-------------------------------------------------|---------|--------|----------------------------|-------------|-----------|--------------------|---------|
| Thru Lan | e: 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lan | | • | | | E-W | Split Phase : | Ν |
| Double Lt Penalt | y: 20 | % | | | Lost Time | (% of cycle) : | 10 |
| ITS | S: 0 | % | | | V/C Roun | d Off (decs.) : | 3 |
| OLA Movements FF Movement | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 100 | 1,600 | 0.039 | N-S(1): | 0.257 |
| Southbound | TH | 3.00 | 730 | 4,800 | 0.039 | N-S(1). N-S(2): | 0.237 |
| | LT | 1.00 | 97 | 1,600 | 0.061 | E-W(1): | 0.302 |
| Westbound | RT | 1.00 | 57 | 1,600 | 0.001 | E-W(1): | 0.162 |
| Viestbound | TH | 2.00 | 369 | 3,200 | 0.005 | L-VV(Z). | 0.102 |
| | LT | 1.00 | 102 | 1,600 | 0.064 * | V/C: | 0.509 |
| Northbound | RT | 0.00 | 38 | 0 | 0.000 | Lost Time: | 0.100 |
| Northbound | TH | 3.00 | 902 | 4,800 | 0.196 | ITS: | 0.000 |
| | LT | 1.00 | 240 | 1,600 | 0.150 * | 110. | 0.000 |
| Eastbound | RT | 1.00 | 156 | 1,600 | 0.023 | ICU: | 0.609 |
| | TH | 1.00 | 228 | 1,600 | 0.143 * | | 0.000 |
| | LT | 1.00 | 75 | 1,600 | 0.047 | LOS: | В |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 73 | 1,600 | 0.020 | N-S(1): | 0.222 |
| Southbound | TH | 3.00 | 884 | 4,800 | 0.020 | N-S(1). N-S(2): | 0.222 * |
| | LT | 1.00 | 122 | 1,600 | 0.076 | E-W(1): | 0.293 * |
| Westbound | RT | 1.00 | 63 | 1,600 | 0.001 | E-W(2): | 0.134 |
| | TH | 2.00 | 267 | 3,200 | 0.083 | | 0.104 |
| | LT | 1.00 | 75 | 1,600 | 0.003 | V/C: | 0.591 |
| Northbound | RT | 0.00 | 76 | 0 | 0.000 | Lost Time: | 0.100 |
| | TH | 3.00 | 623 | 4,800 | 0.146 | ITS: | 0.000 |
| | LT | 1.00 | 174 | 1,600 | 0.109 * | | 0.000 |
| Eastbound | RT | 1.00 | 177 | 1,600 | 0.056 | ICU: | 0.691 |
| | TH | 1.00 | 402 | 1,600 | 0.251 * | | 0.001 |
| | LT | 1.00 | 82 | 1,600 | 0.051 | LOS: | В |

| Project Title: Intersection: Description: | | | e Project e & Arbor Vitae | e Street | | | |
|-------------------------------------------------|----------|--------------|------------------------------|----------------|------------------|--------------------|------------------|
| Thru Lane | : 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lane | | • | | | | Split Phase : | Ν |
| Double Lt Penalty | | % | | | Lost Time | (% of cycle) : | 10 |
| ITS | : 0 | % | | | V/C Round | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.00 | 237 | 0 | 0.000 | N 8(4). | 0.246 |
| Southbound | TH | 3.00 | 960 | 4,800 | 0.000 * | N-S(1): N-S(2): | 0.240 |
| | LT | 3.00 1.00 | 980 17 | 4,800 1,600 | 0.249 | E-W(1): | 0.069 |
| Westbound | RT | 0.80 | 4 | 1,000 | 0.000 | E-W(2): | 0.009 |
| Vestbound | TH | 0.80 | 4 | 320 | 0.000 * | ∟-∨∨(∠). | 0.114 |
| | LT | 1.00 | 14 | 1,600 | 0.009 | V/C: | 0.426 |
| Northbound | RT | 1.00 | 22 | 1,600 | 0.009 | Lost Time: | 0.420 |
| Northbound | TH | 3.00 | 1,126 | 4,800 | 0.235 | ITS: | 0.000 |
| | LT | 1.00 | 101 | 1,600 | 0.063 * | 110. | 0.000 |
| Eastbound | RT | 0.98 | 94 | 1,567 | 0.028 | ICU: | 0.526 |
| Edotbodina | ТН | 0.02 | 2 | 33 | 0.060 | 100. | 0.020 |
| | LT | 1.00 | 178 | 1,600 | 0.111 * | LOS: | А |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | рт | 0.00 | 126 | 0 | 0.000 | N S(1) | 0.007 |
| Southbound | RT TH | 3.00 | 126 984 | 0 | 0.000 0.231 * | N-S(1): | 0.237 0.280 * |
| | | | 984 6 | 4,800 1,600 | | N-S(2): | |
| Westbound | LT RT | <u> </u> | 100 | 1,404 | 0.004 | E-W(1): E-W(2): | 0.142 0.260 * |
| Vestbound | TH | 0.00 | 14 | 196 | 0.009 | ∟-vv(∠). | 0.200 |
| | LT | 1.00 | 92 | 1,600 | 0.071 | V/C: | 0.540 |
| Northbound | RT | 1.00 | 29 | 1,600 | 0.000 | Lost Time: | 0.340 |
| | TH | 3.00 | 1,119 | 4,800 | 0.233 | ITS: | 0.000 |
| | LT | 1.00 | 78 | 1,600 | 0.235 | | 0.000 |
| Eastbound | RT | 0.90 | 122 | 1,446 | 0.040 | ICU: | 0.640 |
| | TH | 0.10 | 13 | 154 | 0.084 | | 0.040 |
| | LT | 1.00 | 302 | 1,600 | 0.189 * | LOS: | В |

FUTURE BASE (2020)

1: 98th Street & Sepulveda Blvd Performance by movement Interval #1 7:00

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.5 | 5.9 | 0.7 | 1.8 | 0.3 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #2 7:15

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.9 | 9.3 | 0.8 | 1.2 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #3 7:30

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|------|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.5 | 10.7 | 0.7 | 1.0 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #4 7:45

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.4 | 8.1 | 0.8 | 1.7 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Entire Run

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.6 | 8.9 | 0.8 | 1.5 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #1 5:00

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.8 | 7.6 | 0.5 | 1.0 | 0.4 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #2 5:15

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.8 | 8.5 | 0.7 | 1.2 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #3 5:30

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.3 | 7.1 | 0.5 | 0.9 | 0.4 | 0.6 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #4 5:45

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|------|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.8 | 10.8 | 0.6 | 0.7 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Entire Run

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.7 | 8.7 | 0.6 | 1.0 | 0.4 | 0.7 |

Intersection Delay, s/veh13.8 Intersection LOS B

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|-------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|--|
| Lane Configurations | ٦ | ef - | | ۳ | ef - | | | \$ | | | \$ | | |
| Traffic Vol, veh/h | 49 | 101 | 43 | 75 | 83 | 324 | 24 | 52 | 66 | 73 | 82 | 23 | |
| Future Vol, veh/h | 49 | 101 | 43 | 75 | 83 | 324 | 24 | 52 | 66 | 73 | 82 | 23 | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 53 | 109 | 46 | 81 | 89 | 348 | 26 | 56 | 71 | 78 | 88 | 25 | |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | | |
| Opposing Lanes | 2 | | | 2 | | | 1 | | | 1 | | | |
| Conflicting Approach Le | eft SB | | | NB | | | EB | | | WB | | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 2 | | | 2 | | | |
| Conflicting Approach R | ghtNB | | | SB | | | WB | | | EB | | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 2 | | | 2 | | | |
| HCM Control Delay | 10.8 | | | 16.5 | | | 11 | | | 12.1 | | | |
| HCM LOS | В | | | С | | | В | | | В | | | |

| Lane | NBLn1 | EBLn1 | EBLn2\ | VBLn1V | VBLn2 | SBLn1 |
|------------------------|-------|-------|--------|--------|-------|-------|
| Vol Left, % | 17% | 100% | 0% | 100% | 0% | 41% |
| Vol Thru, % | 37% | 0% | 70% | 0% | 20% | 46% |
| Vol Right, % | 46% | 0% | 30% | 0% | 80% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 142 | 49 | 144 | 75 | 407 | 178 |
| LT Vol | 24 | 49 | 0 | 75 | 0 | 73 |
| Through Vol | 52 | 0 | 101 | 0 | 83 | 82 |
| RT Vol | 66 | 0 | 43 | 0 | 324 | 23 |
| Lane Flow Rate | 153 | 53 | 155 | 81 | 438 | 191 |
| Geometry Grp | 2 | 7 | 7 | 7 | 7 | 2 |
| Degree of Util (X) | 0.252 | 0.1 | 0.262 | 0.144 | 0.65 | 0.324 |
| Departure Headway (Hd) | 5.947 | 6.809 | 6.087 | 6.421 | 5.348 | 6.095 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Сар | 600 | 524 | 587 | 557 | 674 | 588 |
| Service Time | 4.019 | 4.576 | 3.854 | 4.173 | 3.1 | 4.163 |
| HCM Lane V/C Ratio | 0.255 | 0.101 | 0.264 | 0.145 | 0.65 | 0.325 |
| HCM Control Delay | 11 | 10.3 | 11 | 10.3 | 17.6 | 12.1 |
| HCM Lane LOS | В | В | В | В | С | В |
| HCM 95th-tile Q | 1 | 0.3 | 1 | 0.5 | 4.8 | 1.4 |

Intersection Delay, s/veh Intersection LOS

n 17.3 C

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | eî 🕺 | | ٦ | eî 👘 | | | \$ | | | \$ | |
| Traffic Vol, veh/h | 18 | 82 | 27 | 91 | 95 | 379 | 48 | 67 | 74 | 53 | 98 | 29 |
| Future Vol, veh/h | 18 | 82 | 27 | 91 | 95 | 379 | 48 | 67 | 74 | 53 | 98 | 29 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 19 | 88 | 29 | 98 | 102 | 408 | 52 | 72 | 80 | 57 | 105 | 31 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 2 | | | 2 | | |
| HCM Control Delay | 10.9 | | | 21.9 | | | 12.3 | | | 12.4 | | |
| HCM LOS | В | | | С | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 25% | 100% | 0% | 100% | 0% | 29% |
| Vol Thru, % | 35% | 0% | 75% | 0% | 20% | 54% |
| Vol Right, % | 39% | 0% | 25% | 0% | 80% | 16% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 189 | 18 | 109 | 91 | 474 | 180 |
| LT Vol | 48 | 18 | 0 | 91 | 0 | 53 |
| Through Vol | 67 | 0 | 82 | 0 | 95 | 98 |
| RT Vol | 74 | 0 | 27 | 0 | 379 | 29 |
| Lane Flow Rate | 203 | 19 | 117 | 98 | 510 | 194 |
| Geometry Grp | 2 | 7 | 7 | 7 | 7 | 2 |
| Degree of Util (X) | 0.342 | 0.038 | 0.211 | 0.177 | 0.768 | 0.334 |
| Departure Headway (Hd) | 6.059 | 7.158 | 6.47 | 6.504 | 5.428 | 6.218 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Сар | 589 | 497 | 551 | 550 | 663 | 575 |
| Service Time | 4.137 | 4.944 | 4.255 | 4.263 | 3.187 | 4.298 |
| HCM Lane V/C Ratio | 0.345 | 0.038 | 0.212 | 0.178 | 0.769 | 0.337 |
| HCM Control Delay | 12.3 | 10.2 | 11 | 10.7 | 24 | 12.4 |
| HCM Lane LOS | В | В | В | В | С | В |
| HCM 95th-tile Q | 1.5 | 0.1 | 0.8 | 0.6 | 7.2 | 1.5 |

Intersection Delay, s/veh 9.9 Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR | |
|-------------------------|----------|------|------|------|------|------|------|------|------|------|------|------|--|
| Lane Configurations | <u>۲</u> | ef 👘 | | ٦ | ef 👘 | | | đ þ | | | đî» | | |
| Traffic Vol, veh/h | 23 | 126 | 43 | 54 | 180 | 44 | 63 | 38 | 55 | 5 | 21 | 9 | |
| Future Vol, veh/h | 23 | 126 | 43 | 54 | 180 | 44 | 63 | 38 | 55 | 5 | 21 | 9 | |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 25 | 137 | 47 | 59 | 196 | 48 | 68 | 41 | 60 | 5 | 23 | 10 | |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 2 | | | |
| Conflicting Approach Le | eft SB | | | NB | | | EB | | | WB | | | |
| Conflicting Lanes Left | 2 | | | 2 | | | 2 | | | 2 | | | |
| Conflicting Approach R | ightNB | | | SB | | | WB | | | EB | | | |
| Conflicting Lanes Right | 2 | | | 2 | | | 2 | | | 2 | | | |
| HCM Control Delay | 9.8 | | | 10.4 | | | 9.5 | | | 8.9 | | | |
| HCM LOS | А | | | В | | | А | | | А | | | |

| Lane | NBLn11 | NBLn2 | EBLn1 | EBLn2 | VBLn1\ | WBLn2 | SBLn1 | SBLn2 |
|------------------------|--------|-------|-------|-------|--------|-------|-------|-------|
| Vol Left, % | 77% | 0% | 100% | 0% | 100% | 0% | 32% | 0% |
| Vol Thru, % | 23% | 26% | 0% | 75% | 0% | 80% | 68% | 54% |
| Vol Right, % | 0% | 74% | 0% | 25% | 0% | 20% | 0% | 46% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 82 | 74 | 23 | 169 | 54 | 224 | 16 | 20 |
| LT Vol | 63 | 0 | 23 | 0 | 54 | 0 | 5 | 0 |
| Through Vol | 19 | 19 | 0 | 126 | 0 | 180 | 11 | 11 |
| RT Vol | 0 | 55 | 0 | 43 | 0 | 44 | 0 | 9 |
| Lane Flow Rate | 89 | 80 | 25 | 184 | 59 | 243 | 17 | 21 |
| Geometry Grp | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Degree of Util (X) | 0.154 | 0.119 | 0.041 | 0.267 | 0.095 | 0.35 | 0.029 | 0.034 |
| Departure Headway (Hd) | 6.223 | 5.31 | 5.92 | 5.237 | 5.819 | 5.177 | 6.297 | 5.807 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Сар | 572 | 669 | 601 | 680 | 612 | 689 | 572 | 620 |
| Service Time | 4.005 | 3.092 | 3.696 | 3.012 | 3.588 | 2.946 | 3.997 | 3.507 |
| HCM Lane V/C Ratio | 0.156 | 0.12 | 0.042 | 0.271 | 0.096 | 0.353 | 0.03 | 0.034 |
| HCM Control Delay | 10.1 | 8.8 | 9 | 9.9 | 9.2 | 10.7 | 9.2 | 8.7 |
| HCM Lane LOS | В | А | А | А | А | В | А | А |
| HCM 95th-tile Q | 0.5 | 0.4 | 0.1 | 1.1 | 0.3 | 1.6 | 0.1 | 0.1 |

| Intersection | |
|---------------------------|------|
| Intersection Delay, s/veh | 11.8 |
| Intersection LOS | В |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦ | eî 🕺 | | ۳. | eî 👘 | | | 4î b | | | 4î b | |
| Traffic Vol, veh/h | 7 | 154 | 44 | 50 | 278 | 8 | 77 | 20 | 85 | 20 | 49 | 19 |
| Future Vol, veh/h | 7 | 154 | 44 | 50 | 278 | 8 | 77 | 20 | 85 | 20 | 49 | 19 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 167 | 48 | 54 | 302 | 9 | 84 | 22 | 92 | 22 | 53 | 21 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 2 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 11.4 | | | 13.3 | | | 10.3 | | | 9.9 | | |
| HCM LOS | В | | | В | | | В | | | А | | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Vol Left, % | 89% | 0% | 100% | 0% | 100% | 0% | 45% | 0% | |
| Vol Thru, % | 11% | 11% | 0% | 78% | 0% | 97% | 55% | 56% | |
| Vol Right, % | 0% | 89% | 0% | 22% | 0% | 3% | 0% | 44% | |
| Sign Control | Stop | |
| Traffic Vol by Lane | 87 | 95 | 7 | 198 | 50 | 286 | 45 | 44 | |
| LT Vol | 77 | 0 | 7 | 0 | 50 | 0 | 20 | 0 | |
| Through Vol | 10 | 10 | 0 | 154 | 0 | 278 | 25 | 25 | |
| RT Vol | 0 | 85 | 0 | 44 | 0 | 8 | 0 | 19 | |
| Lane Flow Rate | 95 | 103 | 8 | 215 | 54 | 311 | 48 | 47 | |
| Geometry Grp | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| Degree of Util (X) | 0.178 | 0.163 | 0.014 | 0.345 | 0.094 | 0.493 | 0.091 | 0.081 | |
| Departure Headway (Hd) | 6.778 | 5.694 | 6.428 | 5.764 | 6.233 | 5.708 | 6.743 | 6.204 | |
| Convergence, Y/N | Yes | |
| Сар | 530 | 629 | 557 | 624 | 576 | 631 | 531 | 576 | |
| Service Time | 4.522 | 3.437 | 4.164 | 3.501 | 3.966 | 3.441 | 4.492 | 3.952 | |
| HCM Lane V/C Ratio | 0.179 | 0.164 | 0.014 | 0.345 | 0.094 | 0.493 | 0.09 | 0.082 | |
| HCM Control Delay | 11 | 9.6 | 9.3 | 11.5 | 9.6 | 13.9 | 10.2 | 9.5 | |
| HCM Lane LOS | В | А | А | В | А | В | В | А | |
| HCM 95th-tile Q | 0.6 | 0.6 | 0 | 1.5 | 0.3 | 2.7 | 0.3 | 0.3 | |



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Level of Service Workheet (Circular 212 Method)



| I/S #: 4 | PROJECT TITLE: Century Trunk North-South Street: Airport Boulev | - | East-We | est Street: | 98th Street | | |
|-------------|--------------------------------------------------------------------|--------|-------------|--------------|-------------|-------------|-----------|
| - | Scenario: Future Base (: Count Date: 1/0/1900 | 2020) | Analyst: | Fehr & Peers | Date: | | 3/23/2018 |
| | | | AM | | | PM | |
| | No. of Phases | | | 2 | | | 2 |
| | Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | 0 |
| | Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB 0 | SB | 0 | NB 0 | SB | 0 |
| | ATSAC-1 or ATSAC+ATCS-2? | EB 0 | WB | 0 2 | EB 0 | WB | 0 2 |
| | Override Capacity | | | 0 | | | 0 |
| | MOVEMENT | | No. of | Lane | | No. of | Lane |
| | - | Volume | Lanes | Volume | Volume | Lanes | Volume |
| ₽ | | 95 | 1 | 95 | 74 | 1 | 74 |
| NORTHBOUND | ← Left-Through ↑ Through | 952 | 0 2 | 476 | 859 | 0 2 | 430 |
| BO | through-Right | 952 | 0 | 470 | 009 | 0 | 430 |
| E | Right | 123 | 1 | 90 | 140 | 1 | 91 |
| NOR I | Left-Through-Right | | 0 | | | 0 | Ū. |
| Z | Left-Right | | 0 | | | 0 | |
| | | | - | | | | - |
| Δ | ∽l≪ Left | 150 | 1 | 150 | 65 | 1 | 65 |
| N | ↓ Left-Through | | 0 | | | 0 | |
| 0 M | Through | 384 | 2 1 | 192 | 490 | 2 1 | 222 |
| 王 | ✓ Through-Right ✓ Right | 229 | 0 | 187 | 175 | 0 | 175 |
| SOUTHBOUND | ← Left-Through-Right | 229 | 0 | 107 | 175 | 0 | 175 |
| l N | Left-Right | | 0 | | | 0 | |
| | | • | | | • | | - |
| | Left | 84 | 1 | 84 | 173 | 1 | 173 |
| | –∱ Left-Through | | 0 | | | 0 | |
| | \rightarrow Through | 37 | 1 | 37 | 88 | 1 | 88 |
| TB | | 62 | 0 1 | 15 | 146 | 0 1 | 109 |
| EASTBOUND | Left-Through-Right | 02 | 0 | 10 | 140 | 0 | 109 |
| ш | → Left-Right | | 0 | | | 0 0 | |
| | | | | | | | |
| 0 | <pre>✓ Left</pre> | 66 | 1 | 66 | 98 | 1 | 98 |
| WESTBOUND | ✓ Left-Through | | 0 | | | 0 | |
| l ŭ | ← Through ← Through-Right | 51 | 0 1 | 128 | 60 | 0 1 | 332 |
|)TE | \leftarrow Right | 77 | 0 | 0 | 272 | 0 | 0 |
| /ES | Left-Through-Right | | 0 | 0 | 212 | 0 | 0 |
| S | ├ Left-Right | | 0 | | | Õ | |
| | · · · · · · · · · · · · · · · · · · · | N | orth-South: | 626 | N | orth-South: | 495 |
| | CRITICAL VOLUMES | | East-West: | 212 | | East-West: | 505 |
| | | | SUM: | 838 | | SUM: | 1000 |
| | VOLUME/CAPACITY (V/C) RATIO: | | | 0.559 | | | 0.667 |
| V/ | C LESS ATSAC/ATCS ADJUSTMENT: | | | 0.459 | | | 0.567 |
| | LEVEL OF SERVICE (LOS): | | | Α | | | Α |

Version: 1i Beta; 8/4/2011

Intersection

Intersection Delay, s/veh10.6 Intersection LOS B

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|-------------------------|---------|------|------|------|------|------|
| Lane Configurations | 3 | 1 | 5 | 1 | ¢, | |
| Traffic Vol, veh/h | 35 | 132 | 228 | 178 | 65 | 31 |
| Future Vol, veh/h | 35 | 132 | 228 | 178 | 65 | 31 |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 41 | 155 | 268 | 209 | 76 | 36 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 0 |
| Approach | EB | | NB | | SB | |
| Opposing Approach | 20 | | SB | | NB | |
| Opposing Lanes | 0 | | 1 | | 2 | |
| Conflicting Approach | Left SB | | EB | | - | |
| Conflicting Lanes Left | | | 2 | | 0 | |
| Conflicting Approach | | | | | EB | |
| Conflicting Lanes Right | | | 0 | | 2 | |
| HCM Control Delay | | | 11.4 | | 9.3 | |
| | 9.6 | | 11.4 | | 7.0 | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 0% | 0% | 68% |
| Vol Right, % | 0% | 0% | 0% | 100% | 32% |
| Sign Control | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 228 | 178 | 35 | 132 | 96 |
| LT Vol | 228 | 0 | 35 | 0 | 0 |
| Through Vol | 0 | 178 | 0 | 0 | 65 |
| RT Vol | 0 | 0 | 0 | 132 | 31 |
| Lane Flow Rate | 268 | 209 | 41 | 155 | 113 |
| Geometry Grp | 7 | 7 | 7 | 7 | 4 |
| Degree of Util (X) | 0.422 | 0.3 | 0.074 | 0.227 | 0.163 |
| Departure Headway (Hd) | 5.666 | 5.163 | 6.472 | 5.261 | 5.193 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes |
| Сар | 633 | 693 | 552 | 679 | 686 |
| Service Time | 3.427 | 2.924 | 4.234 | 3.022 | 3.266 |
| HCM Lane V/C Ratio | 0.423 | 0.302 | 0.074 | 0.228 | 0.165 |
| HCM Control Delay | 12.5 | 10.1 | 9.8 | 9.6 | 9.3 |
| HCM Lane LOS | В | В | А | А | А |
| HCM 95th-tile Q | 2.1 | 1.3 | 0.2 | 0.9 | 0.6 |

| ntersection | |
|-------------------------------------------|------|
| | 18.5 |
| tersection Delay, s/veh tersection LOS | 18.5 |
| itersection LOS | C |

| Lane Configurations Image: Configuration in the image: Configuration |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Future Vol, veh/h4543812414417025Peak Hour Factor0.850.850.850.850.850.85Heavy Vehicles, %222222 |
| Peak Hour Factor 0.85 0.85 0.85 0.85 0.85 0.85 Heavy Vehicles, % 2 2 2 2 2 2 2 2 |
| Heavy Vehicles, % 2 2 2 2 2 2 2 |
| |
| March Elson E2 E1E 14/ 1/0 200 20 |
| Mvmt Flow 53 515 146 169 200 29 |
| Number of Lanes 1 1 1 1 0 |
| Approach EB NB SB |
| Opposing Approach SB NB |
| Opposing Lanes 0 1 2 |
| Conflicting Approach Left SB EB |
| Conflicting Lanes Left 1 2 0 |
| Conflicting Approach Right NB EB |
| Conflicting Lanes Right 2 0 2 |
| HCM Control Delay 23.7 12.4 13.8 |
| HCM LOS C B B |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 0% | 0% | 87% |
| Vol Right, % | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 124 | 144 | 45 | 438 | 195 |
| LT Vol | 124 | 0 | 45 | 0 | 0 |
| Through Vol | 0 | 144 | 0 | 0 | 170 |
| RT Vol | 0 | 0 | 0 | 438 | 25 |
| Lane Flow Rate | 146 | 169 | 53 | 515 | 229 |
| Geometry Grp | 7 | 7 | 7 | 7 | 4 |
| Degree of Util (X) | 0.286 | 0.308 | 0.098 | 0.782 | 0.407 |
| Departure Headway (Hd) | 7.062 | 6.553 | 6.675 | 5.461 | 6.384 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes |
| Сар | 508 | 547 | 536 | 660 | 562 |
| Service Time | 4.825 | 4.315 | 4.426 | 3.212 | 4.443 |
| HCM Lane V/C Ratio | 0.287 | 0.309 | 0.099 | 0.78 | 0.407 |
| HCM Control Delay | 12.7 | 12.2 | 10.2 | 25.1 | 13.8 |
| HCM Lane LOS | В | В | В | D | В |
| HCM 95th-tile Q | 1.2 | 1.3 | 0.3 | 7.6 | 2 |

| Project Title: Intersection: Description: | 6 - La C | Trunk Lin ienega Bo 3ase (2020 | ulevard & Arbo | or Vitae Street | | | |
|-------------------------------------------------|----------|--------------------------------------|----------------|-----------------|------------------|--------------------|------------------|
| Thru Lane | : 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lane | | | | | | Split Phase : | Ν |
| Double Lt Penalty | | • | | | Lost Time | (% of cycle) : | 10 |
| ITS | s: 0 | % | | | | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | рт | 0.00 | 100 | 0 | 0.000 | N 0(4). | 0.409 |
| Southbound | RT TH | 2.00 | 130 229 | 0 | 0.000 0.112 * | N-S(1): | 0.408 0.439 * |
| | LT | 2.00 | 229 17 | 3,200 1,600 | 0.112 | N-S(2): E-W(1): | 0.439 |
| Westbound | RT | 1.00 | 344 | 1,600 | 0.215 | E-W(1). E-W(2): | 0.222 |
| VVestbound | TH | 2.00 | 1,066 | 3,200 | 0.215 | ⊏-vv(∠). | 0.307 |
| | LT | 1.00 | 203 | 1,600 | 0.333 | V/C: | 0.806 |
| Northbound | RT | 0.00 | 119 | 0 | 0.000 | Lost Time: | 0.000 |
| Northbound | TH | 2.00 | 1,152 | 3,200 | 0.397 | ITS: | 0.000 |
| | LT | 1.00 | 523 | 1,600 | 0.327 * | 110. | 0.000 |
| Eastbound | RT | 0.00 | 117 | 0 | 0.000 | ICU: | 0.906 |
| | TH | 2.00 | 187 | 3,200 | 0.095 | | 01000 |
| | LT | 1.00 | 54 | 1,600 | 0.034 * | LOS: | Е |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.00 | 58 | 0 | 0.000 | N S(1) | 0.358 * |
| Soumbound | TH | 2.00 | 505 | 3,200 | 0.000 | N-S(1): N-S(2): | 0.358 |
| | LT | 1.00 | 83 | 1,600 | 0.052 * | E-W(1): | 0.279 |
| Westbound | RT | 1.00 | 87 | 1,600 | 0.052 | E-W(2): | 0.330 |
| Westbound | TH | 2.00 | 300 | 3,200 | 0.094 | L-VV(Z). | 0.250 |
| | LT | 1.00 | 63 | 1,600 | 0.034 | V/C: | 0.754 |
| Northbound | RT | 0.00 | 404 | 0 | 0.000 | Lost Time: | 0.100 |
| | ТН | 2.00 | 576 | 3,200 | 0.306 * | ITS: | 0.000 |
| | LT | 1.00 | 164 | 1,600 | 0.103 | | 0.000 |
| Eastbound | RT | 0.00 | 388 | 0 | 0.000 | ICU: | 0.854 |
| | ТН | 2.00 | 755 | 3,200 | 0.357 * | | |
| | LT | 1.00 | 217 | 1,600 | 0.136 | LOS: | D |

| Project Title: Intersection: Description: | 7 - Oak | Trunk Lin Street & Ar Base (2020 | rbor Vitae Stre | et | | | |
|-------------------------------------------------|---------|----------------------------------------|-----------------|----------|-----------|-----------------------------------|---------|
| Thru Lan Left Lan | | • | | | | Split Phase : Split Phase : | Y N |
| Double Lt Penalt | .y: 20 | | | | Lost Time | (% of cycle) : d Off (decs.) : | 10 3 |
| OLA Movements FF Movement | s : | | | | ., | (| |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 260 | 1,600 | 0.151 * | N-S(1): | 0.330 * |
| | ТН | 0.27 | 23 | 428 | 0.054 | N-S(2): | 0.000 |
| | LT | 0.73 | 63 | 1,172 | 0.054 | E-W(1): | 0.108 |
| Westbound | RT | 0.00 | 28 | 0 | 0.000 | E-W(2): | 0.282 * |
| | TH | 2.00 | 802 | 3,200 | 0.259 * | | |
| | LT | 1.00 | 7 | 1,600 | 0.004 | V/C: | 0.612 |
| Northbound | RT | 0.00 | 26 | 0 | 0.000 | Lost Time: | 0.100 |
| | TH | 1.00 | 63 | 1,600 | 0.179 * | ITS: | 0.000 |
| | LT | 0.00 | 197 | 1,600 | 0.123 | | |
| Eastbound | RT | 0.00 | 17 | 0 | 0.000 | ICU: | 0.712 |
| | TH | 2.00 | 317 | 3,200 | 0.104 | | |
| | LT | 1.00 | 36 | 1,600 | 0.023 * | LOS: | С |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 46 | 1,600 | 0.016 | N-S(1): | 0.074 * |
| | TH | 0.46 | 28 | 734 | 0.038 | N-S(2): | 0.000 |
| | LT | 0.54 | 33 | 866 | 0.038 * | E-W(1): | 0.276 * |
| Westbound | RT | 0.00 | 41 | 0 | 0.000 | E-W(2): | 0.160 |
| | TH | 2.00 | 389 | 3,200 | 0.134 | | |
| | LT | 1.00 | 16 | 1,600 | 0.010 * | V/C: | 0.350 |
| Northbound | RT | 0.00 | 12 | 0 | 0.000 | Lost Time: | 0.100 |
| | TH | 1.00 | 21 | 1,600 | 0.036 * | ITS: | 0.000 |
| | LT | 0.00 | 24 | 1,600 | 0.015 | | |
| Eastbound | RT | 0.00 | 24 | 0 | 0.000 | ICU: | 0.450 |
| | TH | 2.00 | 826 | 3,200 | 0.266 * | | |
| | LT | 1.00 | 42 | 1,600 | 0.026 | LOS: | А |

| Project Title: Intersection: Description: | 8 - Ingle | r Trunk Lin wood Ave Base (2020 | nue & Arbor V | itae Street | | | |
|-------------------------------------------------|---------------|---------------------------------------|---------------|-------------|-----------|-----------------------------------|---------|
| Thru Lane Left Lane | | • | | | | Split Phase : Split Phase : | Y N |
| Double Lt Penalty | <i>r</i> : 20 | • | | | Lost Time | (% of cycle) : d Off (decs.) : | 10 3 |
| OLA Movements FF Movements | : | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.25 | 65 | 400 | 0.152 | N-S(1): | 0.372 * |
| | TH | 0.75 | 195 | 1,200 | 0.163 * | N-S(2): | 0.000 |
| | LT | 1.00 | 66 | 1,600 | 0.041 | E-W(1): | 0.182 |
| Westbound | RT | 0.00 | 71 | 0 | 0.000 | E-W(2): | 0.223 * |
| | TH | 2.00 | 575 | 3,200 | 0.202 * | () | |
| | LT | 1.00 | 104 | 1,600 | 0.065 | V/C: | 0.595 |
| Northbound | RT | 0.26 | 87 | 417 | 0.176 | Lost Time: | 0.100 |
| | TH | 0.74 | 247 | 1,183 | 0.209 * | ITS: | 0.000 |
| | LT | 1.00 | 228 | 1,600 | 0.143 | | |
| Eastbound | RT | 0.00 | 64 | 0 | 0.000 | ICU: | 0.695 |
| | TH | 2.00 | 310 | 3,200 | 0.117 | | |
| | LT | 1.00 | 33 | 1,600 | 0.021 * | LOS: | В |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.10 | 38 | 162 | 0.217 | N-S(1): | 0.436 * |
| Codinbodina | ТН | 0.90 | 337 | 1,438 | 0.234 * | N-S(2): | 0.000 |
| | LT | 1.00 | 76 | 1,600 | 0.048 | E-W(1): | 0.257 * |
| Westbound | RT | 0.00 | 58 | 0 | 0.000 | E-W(2): | 0.165 |
| | TH | 2.00 | 361 | 3,200 | 0.131 | (_). | 01100 |
| | LT | 1.00 | 68 | 1,600 | 0.043 * | V/C: | 0.693 |
| Northbound | RT | 0.46 | 149 | 738 | 0.181 | Lost Time: | 0.100 |
| | ТН | 0.54 | 174 | 862 | 0.202 * | ITS: | 0.000 |
| | LT | 1.00 | 109 | 1,600 | 0.068 | | 0.000 |
| Eastbound | RT | 0.00 | 93 | 0 | 0.000 | ICU: | 0.793 |
| | ТН | 2.00 | 591 | 3,200 | 0.214 * | | 000 |
| | LT | 1.00 | 55 | 1,600 | 0.034 | LOS: | С |

| Project Title: Intersection: Description: | 9 - Sout | [,] Trunk Lin h La Brea 3ase (2020 | Ave & Arbor V | itae Street | | | |
|-------------------------------------------------|---------------|---------------------------------------------------|---------------|-------------|-----------|--------------------|---------|
| Thru Lane | : 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lane | | • | | | | Split Phase : | Ν |
| Double Lt Penalty | <i>r</i> : 20 | % | | | Lost Time | (% of cycle) : | 10 |
| ITS | s: 0 | % | | | V/C Round | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 104 | 1,600 | 0.041 | N S(1) | 0.271 |
| Southbound | TH | 3.00 | 779 | 4,800 | 0.041 | N-S(1): N-S(2): | 0.271 |
| | LT | 1.00 | 101 | 1,600 | 0.102 | E-W(1): | 0.235 * |
| Westbound | RT | 1.00 | 59 | 1,600 | 0.005 | E-W(2): | 0.235 |
| Vestbound | TH | 2.00 | 414 | 3,200 | 0.005 | ∟-vv(∠). | 0.170 |
| | LT | 1.00 | 121 | 1,600 | 0.076 * | V/C: | 0.553 |
| Northbound | RT | 0.00 | 43 | 0 | 0.000 | Lost Time: | 0.000 |
| Northbound | TH | 3.00 | 954 | 4,800 | 0.208 | ITS: | 0.000 |
| | LT | 1.00 | 250 | 1,600 | 0.156 * | 110. | 0.000 |
| Eastbound | RT | 1.00 | 162 | 1,600 | 0.023 | ICU: | 0.653 |
| Lastbound | TH | 1.00 | 255 | 1,600 | 0.159 * | 100. | 0.000 |
| | LT | 1.00 | 78 | 1,600 | 0.049 | LOS: | В |
| Date/Time: | PM PEA | K HOUR | | | | 1 | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 76 | 1,600 | 0.021 | N-S(1): | 0.246 |
| Southbound | TH | 3.00 | 949 | 4,800 | 0.021 | N-S(2): | 0.240 |
| | LT | 1.00 | 132 | 1,600 | 0.198 | E-W(1): | 0.353 * |
| Westbound | RT | 1.00 | 71 | 1,600 | 0.003 | E-W(2): | 0.355 |
| VVESIDOUTIO | TH | 2.00 | 331 | 3,200 | 0.003 | ⊏-vv(∠). | 0.150 |
| | LT | 2.00 | 88 | 1,600 | 0.103 | V/C: | 0.664 |
| Northbound | RT | 0.00 | 97 | 0 | 0.000 | Lost Time: | 0.004 |
| | TH | 3.00 | 683 | 4,800 | 0.000 | ITS: | 0.000 |
| | LT | 3.00 1.00 | 181 | 4,800 | 0.103 | 113. | 0.000 |
| Eastbound | RT | 1.00 | 184 | 1,600 | 0.058 | ICU: | 0.764 |
| Lasibuulu | TH | 1.00 | 476 | 1,600 | 0.038 * | | 0.704 |
| | LT | 1.00 | 478 85 | 1,600 | 0.298 | LOS: | С |

| Project Title: Intersection: Description: | 10 - Pra | Trunk Lin irie Avenue 3ase (2020 | e & Arbor Vitae | e Street | | | |
|-------------------------------------------------|----------|----------------------------------------|-----------------|----------------|------------------|--------------------|------------------|
| Thru Lane | e: 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lane | | | | | | Split Phase : | Ν |
| Double Lt Penalty | | • | | | Lost Time | (% of cycle) : | 10 |
| ITS | S: 0 | % | | | V/C Round | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | рт | 0.00 | 047 | 0 | 0.000 | N 0(4). | 0.240 |
| Southbound | RT TH | 0.00 3.00 | 247 | 0 | 0.000 0.288 * | N-S(1): | 0.319 0.357 * |
| | LT | 3.00 1.00 | 1,134 80 | 4,800 1,600 | 0.288 | N-S(2): | 0.357 |
| Westbound | RT | 0.77 | 148 | 1,233 | 0.095 | E-W(1): E-W(2): | 0.146 |
| vvestound | TH | 0.23 | 44 | 367 | 0.095 | ⊏-vv(∠). | 0.230 |
| | LT | 1.00 | 102 | 1,600 | 0.120 | V/C: | 0.593 |
| Northbound | RT | 1.00 | 52 | 1,600 | 0.004 | Lost Time: | 0.595 |
| Northbound | TH | 3.00 | 1,291 | 4,800 | 0.269 | ITS: | 0.000 |
| | LT | 1.00 | 110 | 1,600 | 0.209 | 113. | 0.000 |
| Eastbound | RT | 0.83 | 109 | 1,331 | 0.009 | ICU: | 0.693 |
| Lasibound | TH | 0.03 | 22 | 269 | 0.040 | 100. | 0.095 |
| | LT | 1.00 | 185 | 1,600 | 0.116 * | LOS: | В |
| Date/Time: | PM PEA | K HOUR | | | | 1 | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.00 | 131 | 0 | 0.000 | N-S(1): | 0.411 * |
| Southbound | TH | 3.00 | 1,340 | 4,800 | 0.306 | N-S(2): | 0.377 |
| | LT | 1.00 | 154 | 1,600 | 0.096 * | E-W(1): | 0.384 |
| Westbound | RT | 0.71 | 563 | 1,142 | 0.445 | E-W(2): | 0.689 * |
| | TH | 0.29 | 226 | 458 | 0.443 | | 0.000 |
| | LT | 1.00 | 365 | 1,600 | 0.495 | V/C: | 1.100 |
| Northbound | RT | 1.00 | 116 | 1,600 | 0.000 | Lost Time: | 0.100 |
| | TH | 3.00 | 1,513 | 4,800 | 0.315 * | ITS: | 0.000 |
| | LT | 1.00 | 113 | 1,600 | 0.071 | | 0.000 |
| Eastbound | RT | 0.62 | 154 | 986 | 0.121 | ICU: | 1.200 |
| | TH | 0.38 | 96 | 614 | 0.121 | | 1.200 |
| | LT | 1.00 | 314 | 1,600 | 0.196 * | LOS: | F |

FUTURE BASE (2022)

1: 98th Street & Sepulveda Blvd Performance by movement Interval #1 7:00

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.8 | 8.9 | 0.7 | 0.8 | 0.3 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #2 7:15

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|------|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.2 |
| Total Del/Veh (s) | 2.0 | 11.4 | 0.9 | 1.4 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #3 7:30

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.3 | 0.3 | 0.1 | 0.2 |
| Total Del/Veh (s) | 2.0 | 6.1 | 0.9 | 1.7 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #4 7:45

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.3 | 5.3 | 0.9 | 1.9 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Entire Run

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.9 | 8.4 | 0.8 | 1.6 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #1 5:00

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|------|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.3 | 10.6 | 0.6 | 1.4 | 0.4 | 0.8 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #2 5:15

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.4 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.5 | 8.6 | 0.6 | 1.1 | 0.4 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #3 5:30

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|------|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.2 |
| Total Del/Veh (s) | 1.3 | 11.5 | 0.7 | 1.1 | 0.4 | 0.9 |

1: 98th Street & Sepulveda Blvd Performance by movement Interval #4 5:45

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|-----|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.9 | 8.7 | 0.6 | 0.8 | 0.4 | 0.7 |

1: 98th Street & Sepulveda Blvd Performance by movement Entire Run

| Movement | WBT | WBR | NBT | NBR | SBT | All |
|--------------------|-----|------|-----|-----|-----|-----|
| Denied Del/Veh (s) | 0.0 | 0.0 | 0.2 | 0.3 | 0.1 | 0.1 |
| Total Del/Veh (s) | 1.5 | 10.2 | 0.7 | 1.1 | 0.4 | 0.8 |

Intersection

Intersection Delay, s/veh Intersection LOS

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14.8
B
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| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ሻ | eî 👘 | | ሻ | ef 👘 | | | 4 | | | 4 | |
| Traffic Vol, veh/h | 51 | 105 | 44 | 78 | 87 | 337 | 25 | 54 | 68 | 76 | 86 | 24 |
| Future Vol, veh/h | 51 | 105 | 44 | 78 | 87 | 337 | 25 | 54 | 68 | 76 | 86 | 24 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 55 | 113 | 47 | 84 | 94 | 362 | 27 | 58 | 73 | 82 | 92 | 26 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 2 | | | 2 | | |
| HCM Control Delay | 11.2 | | | 18 | | | 11.4 | | | 12.5 | | |
| HCM LOS | В | | | С | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 17% | 100% | 0% | 100% | 0% | 41% |
| Vol Thru, % | 37% | 0% | 70% | 0% | 21% | 46% |
| Vol Right, % | 46% | 0% | 30% | 0% | 79% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 147 | 51 | 149 | 78 | 424 | 186 |
| LT Vol | 25 | 51 | 0 | 78 | 0 | 76 |
| Through Vol | 54 | 0 | 105 | 0 | 87 | 86 |
| RT Vol | 68 | 0 | 44 | 0 | 337 | 24 |
| Lane Flow Rate | 158 | 55 | 160 | 84 | 456 | 200 |
| Geometry Grp | 2 | 7 | 7 | 7 | 7 | 2 |
| Degree of Util (X) | 0.266 | 0.105 | 0.276 | 0.151 | 0.688 | 0.345 |
| Departure Headway (Hd) | 6.066 | 6.919 | 6.199 | 6.502 | 5.43 | 6.201 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Сар | 588 | 515 | 575 | 550 | 661 | 576 |
| Service Time | 4.151 | 4.698 | 3.977 | 4.263 | 3.189 | 4.279 |
| HCM Lane V/C Ratio | 0.269 | 0.107 | 0.278 | 0.153 | 0.69 | 0.347 |
| HCM Control Delay | 11.4 | 10.5 | 11.4 | 10.4 | 19.4 | 12.5 |
| HCM Lane LOS | В | В | В | В | С | В |
| HCM 95th-tile Q | 1.1 | 0.3 | 1.1 | 0.5 | 5.5 | 1.5 |

Intersection 19.2

Intersection Delay, s/veh Intersection LOS

С

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ٦. | eî 👘 | | ٦ | eî 👘 | | | 4 | | | 4 | |
| Traffic Vol, veh/h | 18 | 86 | 28 | 94 | 99 | 394 | 50 | 69 | 77 | 55 | 102 | 30 |
| Future Vol, veh/h | 18 | 86 | 28 | 94 | 99 | 394 | 50 | 69 | 77 | 55 | 102 | 30 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 19 | 92 | 30 | 101 | 106 | 424 | 54 | 74 | 83 | 59 | 110 | 32 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 2 | | | 2 | | |
| HCM Control Delay | 11.3 | | | 25.1 | | | 12.9 | | | 12.9 | | |
| HCM LOS | В | | | D | | | В | | | В | | |

| Lane | NBLn1 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|-------|
| Vol Left, % | 26% | 100% | 0% | 100% | 0% | 29% |
| Vol Thru, % | 35% | 0% | 75% | 0% | 20% | 55% |
| Vol Right, % | 39% | 0% | 25% | 0% | 80% | 16% |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 196 | 18 | 114 | 94 | 493 | 187 |
| LT Vol | 50 | 18 | 0 | 94 | 0 | 55 |
| Through Vol | 69 | 0 | 86 | 0 | 99 | 102 |
| RT Vol | 77 | 0 | 28 | 0 | 394 | 30 |
| Lane Flow Rate | 211 | 19 | 123 | 101 | 530 | 201 |
| Geometry Grp | 2 | 7 | 7 | 7 | 7 | 2 |
| Degree of Util (X) | 0.367 | 0.04 | 0.228 | 0.185 | 0.811 | 0.354 |
| Departure Headway (Hd) | 6.274 | 7.383 | 6.695 | 6.587 | 5.51 | 6.444 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes | Yes |
| Сар | 577 | 487 | 538 | 541 | 652 | 561 |
| Service Time | 4.274 | 5.097 | 4.409 | 4.371 | 3.293 | 4.444 |
| HCM Lane V/C Ratio | 0.366 | 0.039 | 0.229 | 0.187 | 0.813 | 0.358 |
| HCM Control Delay | 12.9 | 10.4 | 11.4 | 10.9 | 27.8 | 12.9 |
| HCM Lane LOS | В | В | В | В | D | В |
| HCM 95th-tile Q | 1.7 | 0.1 | 0.9 | 0.7 | 8.3 | 1.6 |

| Intersection | | | | | | | | | | | | |
|---------------------------|------|------|------|------|------|------|------|------|------|------|-------|------|
| Intersection Delay, s/veh | 10.1 | | | | | | | | | | | |
| Intersection LOS | В | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ۲ | eî 👘 | | ۲ | ef 👘 | | | લ મિ | | | 4î îr | |
| Traffic Vol, veh/h | 24 | 131 | 44 | 56 | 187 | 45 | 66 | 40 | 57 | 5 | 22 | 10 |
| Future Vol, veh/h | 24 | 131 | 44 | 56 | 187 | 45 | 66 | 40 | 57 | 5 | 22 | 10 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |

| | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 26 | 142 | 48 | 61 | 203 | 49 | 72 | 43 | 62 | 5 | 24 | 11 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 2 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 10 | | | 10.7 | | | 9.6 | | | 9 | | |
| HCM LOS | А | | | В | | | А | | | А | | |
| | | | | | | | | | | | | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Vol Left, % | 77% | 0% | 100% | 0% | 100% | 0% | 31% | 0% | |
| Vol Thru, % | 23% | 26% | 0% | 75% | 0% | 81% | 69% | 52% | |
| Vol Right, % | 0% | 74% | 0% | 25% | 0% | 19% | 0% | 48% | |
| Sign Control | Stop | |
| Traffic Vol by Lane | 86 | 77 | 24 | 175 | 56 | 232 | 16 | 21 | |
| LT Vol | 66 | 0 | 24 | 0 | 56 | 0 | 5 | 0 | |
| Through Vol | 20 | 20 | 0 | 131 | 0 | 187 | 11 | 11 | |
| RT Vol | 0 | 57 | 0 | 44 | 0 | 45 | 0 | 10 | |
| Lane Flow Rate | 93 | 84 | 26 | 190 | 61 | 252 | 17 | 23 | |
| Geometry Grp | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| Degree of Util (X) | 0.163 | 0.125 | 0.043 | 0.279 | 0.099 | 0.366 | 0.031 | 0.037 | |
| Departure Headway (Hd) | 6.271 | 5.36 | 5.966 | 5.285 | 5.86 | 5.22 | 6.366 | 5.87 | |
| Convergence, Y/N | Yes | |
| Сар | 567 | 661 | 595 | 673 | 607 | 683 | 566 | 614 | |
| Service Time | 4.065 | 3.153 | 3.751 | 3.07 | 3.637 | 2.997 | 4.066 | 3.57 | |
| HCM Lane V/C Ratio | 0.164 | 0.127 | 0.044 | 0.282 | 0.1 | 0.369 | 0.03 | 0.037 | |
| HCM Control Delay | 10.3 | 8.9 | 9 | 10.1 | 9.3 | 11 | 9.3 | 8.8 | |
| HCM Lane LOS | В | А | А | В | А | В | А | А | |
| HCM 95th-tile Q | 0.6 | 0.4 | 0.1 | 1.1 | 0.3 | 1.7 | 0.1 | 0.1 | |

| Intersection | |
|-----------------------------------------------|------|
| Intersection Delay, s/veh Intersection LOS | 12.2 |
| Intersection LOS | В |
| | |

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|----------|------|------|------|------|------|------|------|------|------|-------|------|
| Lane Configurations | <u>۲</u> | ef 👘 | | ሻ | ef 👘 | | | 4î» | | | 4 î b | |
| Traffic Vol, veh/h | 8 | 160 | 45 | 52 | 289 | 9 | 80 | 21 | 89 | 21 | 51 | 19 |
| Future Vol, veh/h | 8 | 160 | 45 | 52 | 289 | 9 | 80 | 21 | 89 | 21 | 51 | 19 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 174 | 49 | 57 | 314 | 10 | 87 | 23 | 97 | 23 | 55 | 21 |
| Number of Lanes | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 2 | | | 2 | | | 2 | | | 2 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 2 | | | 2 | | | 2 | | | 2 | | |
| HCM Control Delay | 11.8 | | | 13.9 | | | 10.5 | | | 10 | | |
| HCM LOS | В | | | В | | | В | | | А | | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBLn1 | SBLn2 | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Vol Left, % | 88% | 0% | 100% | 0% | 100% | 0% | 45% | 0% | |
| Vol Thru, % | 12% | 11% | 0% | 78% | 0% | 97% | 55% | 57% | |
| Vol Right, % | 0% | 89% | 0% | 22% | 0% | 3% | 0% | 43% | |
| Sign Control | Stop | |
| Traffic Vol by Lane | 91 | 100 | 8 | 205 | 52 | 298 | 47 | 45 | |
| LT Vol | 80 | 0 | 8 | 0 | 52 | 0 | 21 | 0 | |
| Through Vol | 11 | 11 | 0 | 160 | 0 | 289 | 26 | 26 | |
| RT Vol | 0 | 89 | 0 | 45 | 0 | 9 | 0 | 19 | |
| Lane Flow Rate | 98 | 108 | 9 | 223 | 57 | 324 | 51 | 48 | |
| Geometry Grp | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| Degree of Util (X) | 0.188 | 0.174 | 0.016 | 0.362 | 0.099 | 0.519 | 0.096 | 0.085 | |
| Departure Headway (Hd) | 6.865 | 5.781 | 6.506 | 5.844 | 6.299 | 5.772 | 6.848 | 6.314 | |
| Convergence, Y/N | Yes | |
| Сар | 522 | 620 | 550 | 615 | 569 | 625 | 522 | 566 | |
| Service Time | 4.613 | 3.528 | 4.25 | 3.587 | 4.038 | 3.511 | 4.602 | 4.068 | |
| HCM Lane V/C Ratio | 0.188 | 0.174 | 0.016 | 0.363 | 0.1 | 0.518 | 0.098 | 0.085 | |
| HCM Control Delay | 11.2 | 9.8 | 9.4 | 11.9 | 9.7 | 14.6 | 10.3 | 9.7 | |
| HCM Lane LOS | В | А | А | В | А | В | В | А | |
| HCM 95th-tile Q | 0.7 | 0.6 | 0 | 1.6 | 0.3 | 3 | 0.3 | 0.3 | |



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Level of Service Workheet (Circular 212 Method)



| I/S #: 4 | PROJECT TITLE: Century Trunk North-South Street: Airport Boulev | - | East-We | est Street: | 98th Street | | |
|-------------|--------------------------------------------------------------------|--------|-------------|--------------|-------------|-------------|-----------|
| | Scenario: Future Base (2 Count Date: 1/0/1900 | 2022) | Analyst: | Fehr & Peers | Date: | | 3/23/2018 |
| | | | AM | | | РМ | |
| | No. of Phases | | | 2 | | | 2 |
| | Opposed Ø'ing: N/S-1, E/W-2 or Both-3? | | | 0 | | | 0 |
| | Right Turns: FREE-1, NRTOR-2 or OLA-3? | NB 0 | SB | 0 | NB 0 | SB | 0 |
| | ATSAC-1 or ATSAC+ATCS-2? | EB 0 | WB | 0 2 | EB 0 | WB | 0 2 |
| | Override Capacity | | | 0 | | | 2 |
| | | | No. of | Lane | | No. of | Lane |
| | MOVEMENT | Volume | Lanes | Volume | Volume | Lanes | Volume |
| ۵ | Left | 99 | 1 | 99 | 77 | 1 | 77 |
| NORTHBOUND | <⊓ Left-Through | | 0 | | | 0 | |
| 0 0 | ↑ Through | 991 | 2 | 496 | 894 | 2 | 447 |
| 1 2 | Through-Right | 100 | 0 | 04 | 140 | 0 1 | 05 |
| R. | Right | 128 | 1 0 | 94 | 146 | 0 | 95 |
| Ň | Left-Through-Right | | 0 | | | 0 | |
| | Lett-tight | | U | | I i | U | |
| | ∽√≪ Left | 156 | 1 | 156 | 67 | 1 | 67 |
| | ↓ Left-Through | | 0 | | | 0 | |
| SOUTHBOUND | ↓ Through | 399 | 2 | 200 | 510 | 2 | 231 |
| 1 2 | ← Through-Right | | 1 | | 100 | 1 | (00 |
| | → Right | 238 | 0 0 | 194 | 182 | 0 | 182 |
| so | ↔ Left-Through-Right ↓ Left-Right | | 0 | | | 0 | |
| | | | 0 | | Ii | U | |
| | _∕ Left | 88 | 1 | 88 | 180 | 1 | 180 |
| QN | → Left-Through | | 0 | | | 0 | |
| EASTBOUND | → Through | 39 | 1 | 39 | 92 | 1 | 92 |
| <u>I</u> B | → Through-Right | 05 | 0 | 10 | 450 | 0 | |
| AS. | Right | 65 | 1 0 | 16 | 152 | 1 0 | 114 |
| ш | <pre></pre> | | 0 | | | 0 | |
| | | | U | | Ii | U | |
| | √ Left | 68 | 1 | 68 | 102 | 1 | 102 |
| D N N | ✓ Left-Through | | 0 | | | 0 | |
| WESTBOUND | ← Through | 53 | 0 | 133 | 63 | 0 | 346 |
| TB | C Through-Right | 00 | 1 | ~ | 000 | 1 | <u>_</u> |
| ES | Right Left-Through-Right | 80 | 0 | 0 | 283 | 0 | 0 |
| 3 | Left-Right | | 0 | | | 0 | |
| | ¥3 | Λ | orth-South: | 652 | N | orth-South: | 514 |
| | CRITICAL VOLUMES | | East-West: | 221 | | East-West: | 526 |
| | | | SUM: | 873 | | SUM: | 1040 |
| | VOLUME/CAPACITY (V/C) RATIO: | | | 0.582 | | | 0.693 |
| V/ | C LESS ATSAC/ATCS ADJUSTMENT: | | | 0.482 | | | 0.593 |
| | LEVEL OF SERVICE (LOS): | | | Α | | | Α |
| μ | · / | 1 | | | | | |

Version: 1i Beta; 8/4/2011

| Intersection | | | | | | |
|---------------------------|------|-----|-----|-----|-----|-----|
| Intersection Delay, s/veh | 10.9 | | | | | |
| Intersection LOS | В | | | | | |
| | | | | | | |
| | EDI | 500 | ND | NDT | ODT | 000 |
| Movement | FBI | FBR | NBI | NBT | SBT | SBR |

| iviovement | EBL | EBK | NRL | INR I | SRI | SBK | |
|----------------------------|------|------|------|----------|------|------|--|
| Lane Configurations | ۳. | 1 | ۳. | ↑ | 4 | | |
| Traffic Vol, veh/h | 37 | 137 | 237 | 185 | 67 | 32 | |
| Future Vol, veh/h | 37 | 137 | 237 | 185 | 67 | 32 | |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 44 | 161 | 279 | 218 | 79 | 38 | |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 0 | |
| Approach | EB | | NB | | SB | | |
| Opposing Approach | | | SB | | NB | | |
| Opposing Lanes | 0 | | 1 | | 2 | | |
| Conflicting Approach Left | SB | | EB | | | | |
| Conflicting Lanes Left | 1 | | 2 | | 0 | | |
| Conflicting Approach Right | NB | | | | EB | | |
| Conflicting Lanes Right | 2 | | 0 | | 2 | | |
| HCM Control Delay | 9.7 | | 11.8 | | 9.4 | | |
| HCM LOS | А | | В | | А | | |
| | | | | | | | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 0% | 0% | 68% |
| Vol Right, % | 0% | 0% | 0% | 100% | 32% |
| Sign Control | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 237 | 185 | 37 | 137 | 99 |
| LT Vol | 237 | 0 | 37 | 0 | 0 |
| Through Vol | 0 | 185 | 0 | 0 | 67 |
| RT Vol | 0 | 0 | 0 | 137 | 32 |
| Lane Flow Rate | 279 | 218 | 44 | 161 | 116 |
| Geometry Grp | 7 | 7 | 7 | 7 | 4 |
| Degree of Util (X) | 0.441 | 0.314 | 0.079 | 0.238 | 0.169 |
| Departure Headway (Hd) | 5.697 | 5.194 | 6.524 | 5.312 | 5.239 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes |
| Сар | 630 | 688 | 547 | 672 | 679 |
| Service Time | 3.463 | 2.959 | 4.29 | 3.078 | 3.318 |
| HCM Lane V/C Ratio | 0.443 | 0.317 | 0.08 | 0.24 | 0.171 |
| HCM Control Delay | 12.9 | 10.3 | 9.9 | 9.7 | 9.4 |
| HCM Lane LOS | В | В | А | А | А |
| HCM 95th-tile Q | 2.3 | 1.3 | 0.3 | 0.9 | 0.6 |

| ntersection | |
|--------------------------|------|
| ntersection Delay, s/veh | 20.5 |
| ntersection LOS | C |

| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|----------------------------|------|------|------|------|------|------|
| Lane Configurations | ٦ | 7 | ٦ | 1 | eî | |
| Traffic Vol, veh/h | 47 | 456 | 129 | 149 | 176 | 26 |
| Future Vol, veh/h | 47 | 456 | 129 | 149 | 176 | 26 |
| Peak Hour Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 55 | 536 | 152 | 175 | 207 | 31 |
| Number of Lanes | 1 | 1 | 1 | 1 | 1 | 0 |
| Approach | EB | | NB | | SB | |
| Opposing Approach | | | SB | | NB | |
| Opposing Lanes | 0 | | 1 | | 2 | |
| Conflicting Approach Left | SB | | EB | | | |
| Conflicting Lanes Left | 1 | | 2 | | 0 | |
| Conflicting Approach Right | NB | | | | EB | |
| Conflicting Lanes Right | 2 | | 0 | | 2 | |
| HCM Control Delay | 27.3 | | 12.8 | | 14.4 | |
| HCM LOS | D | | В | | В | |

| Lane | NBLn1 | NBLn2 | EBLn1 | EBLn2 | SBLn1 |
|------------------------|-------|-------|-------|-------|-------|
| Vol Left, % | 100% | 0% | 100% | 0% | 0% |
| Vol Thru, % | 0% | 100% | 0% | 0% | 87% |
| Vol Right, % | 0% | 0% | 0% | 100% | 13% |
| Sign Control | Stop | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 129 | 149 | 47 | 456 | 202 |
| LT Vol | 129 | 0 | 47 | 0 | 0 |
| Through Vol | 0 | 149 | 0 | 0 | 176 |
| RT Vol | 0 | 0 | 0 | 456 | 26 |
| Lane Flow Rate | 152 | 175 | 55 | 536 | 238 |
| Geometry Grp | 7 | 7 | 7 | 7 | 4 |
| Degree of Util (X) | 0.302 | 0.324 | 0.104 | 0.824 | 0.428 |
| Departure Headway (Hd) | 7.173 | 6.663 | 6.746 | 5.531 | 6.49 |
| Convergence, Y/N | Yes | Yes | Yes | Yes | Yes |
| Сар | 499 | 538 | 530 | 654 | 554 |
| Service Time | 4.942 | 4.432 | 4.502 | 3.287 | 4.556 |
| HCM Lane V/C Ratio | 0.305 | 0.325 | 0.104 | 0.82 | 0.43 |
| HCM Control Delay | 13 | 12.6 | 10.3 | 29 | 14.4 |
| HCM Lane LOS | В | В | В | D | В |
| HCM 95th-tile Q | 1.3 | 1.4 | 0.3 | 8.7 | 2.1 |

| Project Title: Intersection: Description: | 6 - La C | [,] Trunk Lin ienega Bo 3ase (2022 | ulevard & Arbo | or Vitae Street | | | |
|-------------------------------------------------|----------|---------------------------------------------------|----------------|-----------------|------------------|---------------------------------------------------|------------------|
| Thru Lane | : 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lane | | | | | E-W | Split Phase : | Ν |
| Double Lt Penalty | | • | | | Lost Time | (% of cycle) : | 10 |
| ITS | : 0 | % | | | | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | рт | 0.00 | 105 | 0 | 0.000 | N 0(4). | 0 4 9 4 |
| Soumbound | RT TH | 2.00 | 135 239 | 0 | 0.000 0.117 * | N-S(1): | 0.424 0.457 * |
| | LT | 2.00 | 239 17 | 3,200 1,600 | 0.011 | N-S(2): E-W(1): | 0.457 |
| Westbound | RT | 1.00 | 358 | 1,600 | 0.224 | E-W(1). E-W(2): | 0.230 |
| VVestbound | TH | 2.00 | 1,109 | 3,200 | 0.224 | ⊏-vv(∠). | 0.302 |
| | LT | 1.00 | 211 | 1,600 | 0.132 | V/C: | 0.839 |
| Northbound | RT | 0.00 | 123 | 0 | 0.000 | Lost Time: | 0.009 |
| Northbound | TH | 2.00 | 1,198 | 3,200 | 0.413 | ITS: | 0.000 |
| | LT | 1.00 | 544 | 1,600 | 0.340 * | | 0.000 |
| Eastbound | RT | 0.00 | 121 | 0 | 0.000 | ICU: | 0.939 |
| | TH | 2.00 | 194 | 3,200 | 0.098 | | 01000 |
| | LT | 1.00 | 56 | 1,600 | 0.035 * | LOS: | E |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.00 | 61 | 0 | 0.000 | N S(1) | 0.372 * |
| Southbound | TH | 2.00 | 525 | 3,200 | 0.000 | N-S(1): N-S(2): | 0.372 |
| | LT | 1.00 | 87 | 1,600 | 0.183 | E-W(1): | 0.290 |
| Westbound | RT | 1.00 | 91 | 1,600 | 0.057 | E-W(2): | 0.238 |
| TT COLOUIN | TH | 2.00 | 311 | 3,200 | 0.097 | $\mathbf{L}^{-\mathbf{v}\mathbf{v}}(\mathbf{Z}).$ | 0.200 |
| | LT | 1.00 | 66 | 1,600 | 0.041 * | V/C: | 0.785 |
| Northbound | RT | 0.00 | 420 | 0 | 0.000 | Lost Time: | 0.100 |
| | ТН | 2.00 | 599 | 3,200 | 0.318 * | ITS: | 0.000 |
| | LT | 1.00 | 171 | 1,600 | 0.107 | | 0.000 |
| Eastbound | RT | 0.00 | 404 | 0 | 0.000 | ICU: | 0.885 |
| | TH | 2.00 | 785 | 3,200 | 0.372 * | | |
| | LT | 1.00 | 226 | 1,600 | 0.141 | LOS: | D |

| Project Title: Intersection: Description: | 7 - Oak | Trunk Lin Street & Ar 3ase (2022 | rbor Vitae Stre | et | | | |
|--------------------------------------------------------------------------------|-----------------------------------|----------------------------------------|-----------------|-----------------------|---------------------------|---------------------------------------------------------------------|-----------------------------|
| Thru Lan Left Lan Double Lt Penali IT OLA Movements FF Movement | ty: 1600 ty: 20 S: 0 s : | vph | | | E-W Lost Time | Split Phase : Split Phase : (% of cycle) : d Off (decs.) : | Y N 10 3 |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT TH LT | 1.00 0.27 0.73 | 271 24 66 | 1,600 427 1,173 | 0.158 * 0.056 0.056 | N-S(1): N-S(2): E-W(1): | 0.344 * 0.000 0.113 |
| Westbound | RT TH LT | 0.00 2.00 1.00 | 29 834 8 | 0 3,200 1,600 | 0.000 0.270 * 0.005 | E-W(2): V/C: | 0.294 * |
| Northbound | RT TH LT | 0.00 1.00 0.00 | 27 66 205 | 0 1,600 1,600 | 0.000 0.186 * 0.128 | Lost Time: ITS: | 0.100 0.000 |
| Eastbound | RT TH LT | 0.00 2.00 1.00 | 17 329 38 | 0 3,200 1,600 | 0.000 0.108 0.024 * | ICU: LOS: | 0.738 C |
| Date/Time: | PM PEA | K HOUR | | | | - | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT TH LT | 1.00 0.45 0.55 | 48 29 35 | 1,600 725 875 | 0.017 0.040 0.040 * | N-S(1): N-S(2): E-W(1): | 0.078 * 0.000 0.286 * |
| Westbound | RT TH LT | 0.00 2.00 1.00 | 42 404 16 | 0 3,200 1,600 | 0.000 0.139 0.010 * | E-W(2): V/C: | 0.166 0.364 |
| Northbound | RT TH LT | 0.00 1.00 0.00 | 13 22 25 | 0 1,600 1,600 | 0.000 0.038 * 0.016 | Lost Time: ITS: | 0.100 0.000 |
| Eastbound | RT TH LT | 0.00 2.00 1.00 | 25 859 43 | 0 3,200 1,600 | 0.000 0.276 * 0.027 | ICU: LOS: | 0.464 A |

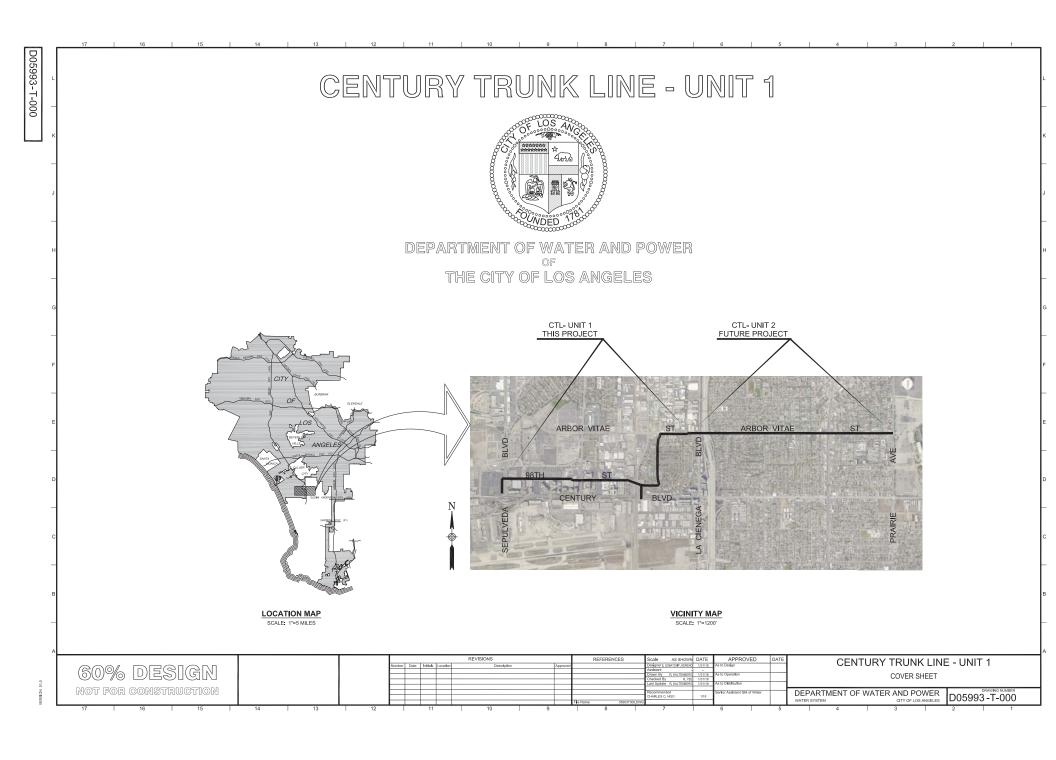
| Project Title: Intersection: Description: | 8 - Ingle | r Trunk Lin wood Ave Base (2022 | nue & Arbor V | itae Street | | | |
|-------------------------------------------------|-----------|---------------------------------------|---------------|-------------|-----------|--------------------|---------|
| Thru Lan | e: 1600 | vph | | | N-S | Split Phase : | Y |
| Left Lan | | | | | | Split Phase : | Ν |
| Double Lt Penalt | | • | | | Lost Time | (% of cycle) : | 10 |
| IT | S: 0 | % | | | | d Off (decs.) : | 3 |
| OLA Movements FF Movement | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.25 | 67 | 397 | 0.158 | NI 8(1): | 0.386 * |
| Soumbound | TH | 0.25 | 203 | 1,203 | 0.158 | N-S(1): N-S(2): | 0.380 |
| | LT | 1.00 | 69 | 1,600 | 0.109 | E-W(1): | 0.000 |
| Westbound | RT | 0.00 | 74 | 0 | 0.043 | E-W(2): | 0.189 |
| Westbound | TH | 2.00 | 598 | 3,200 | 0.210 * | L-VV(Z). | 0.202 |
| | LT | 1.00 | 108 | 1,600 | 0.068 | V/C: | 0.618 |
| Northbound | RT | 0.26 | 91 | 420 | 0.183 | Lost Time: | 0.010 |
| Northbound | TH | 0.74 | 256 | 1,180 | 0.217 * | ITS: | 0.000 |
| | LT | 1.00 | 237 | 1,600 | 0.148 | | 0.000 |
| Eastbound | RT | 0.00 | 66 | 0 | 0.000 | ICU: | 0.718 |
| | TH | 2.00 | 322 | 3,200 | 0.121 | | 011 10 |
| | LT | 1.00 | 35 | 1,600 | 0.022 * | LOS: | С |
| Date/Time: | PM PEA | K HOUR | | | | 1 | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.10 | 40 | 164 | 0.226 | N-S(1): | 0.453 * |
| Southbound | TH | 0.90 | 350 | 1,436 | 0.220 | N-S(2): | 0.000 |
| | LT | 1.00 | 78 | 1,600 | 0.049 | E-W(1): | 0.266 * |
| Westbound | RT | 0.00 | 60 | 0 | 0.000 | E-W(2): | 0.172 |
| Westbound | TH | 2.00 | 374 | 3,200 | 0.136 | | 0.172 |
| | LT | 1.00 | 70 | 1,600 | 0.044 * | V/C: | 0.719 |
| Northbound | RT | 0.46 | 154 | 736 | 0.188 | Lost Time: | 0.100 |
| | TH | 0.54 | 181 | 864 | 0.209 * | ITS: | 0.000 |
| | LT | 1.00 | 114 | 1,600 | 0.071 | | |
| Eastbound | RT | 0.00 | 96 | 0 | 0.000 | ICU: | 0.819 |
| | TH | 2.00 | 614 | 3,200 | 0.222 * | | |
| | LT | 1.00 | 57 | 1,600 | 0.036 | LOS: | D |

| Project Title: Intersection: Description: | 9 - Sout | r Trunk Lin h La Brea Base (2022 | Ave & Arbor V | itae Street | | | |
|-------------------------------------------------|----------|----------------------------------------|---------------|-------------|-----------|-----------------|---------|
| Thru Lane | : 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lane | | • | | | | Split Phase : | Ν |
| Double Lt Penalty | | % | | | Lost Time | (% of cycle) : | 10 |
| ITS | 6: 0 | % | | | V/C Round | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 108 | 1,600 | 0.042 | N-S(1): | 0.282 |
| Southbound | TH | 3.00 | 810 | 4,800 | 0.042 | N-S(2): | 0.282 * |
| | LT | 1.00 | 105 | 1,600 | 0.066 | E-W(1): | 0.332 |
| Westbound | RT | 1.00 | 62 | 1,600 | 0.000 | E-W(1): | 0.185 |
| Westbound | ТН | 2.00 | 429 | 3,200 | 0.134 | L VV(2). | 0.100 |
| | LT | 1.00 | 125 | 1,600 | 0.078 * | V/C: | 0.576 |
| Northbound | RT | 0.00 | 44 | 0 | 0.000 | Lost Time: | 0.100 |
| Hortingoding | ТН | 3.00 | 992 | 4,800 | 0.216 | ITS: | 0.000 |
| | LT | 1.00 | 260 | 1,600 | 0.163 * | | 0.000 |
| Eastbound | RT | 1.00 | 169 | 1,600 | 0.024 | ICU: | 0.676 |
| | TH | 1.00 | 265 | 1,600 | 0.166 * | | |
| | LT | 1.00 | 81 | 1,600 | 0.051 | LOS: | В |
| Date/Time: | PM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 1.00 | 79 | 1,600 | 0.022 | N-S(1): | 0.255 |
| Southbound | TH | 3.00 | 986 | 4,800 | 0.205 * | N-S(2): | 0.233 * |
| | LT | 1.00 | 137 | 1,600 | 0.086 | E-W(1): | 0.365 * |
| Westbound | RT | 1.00 | 74 | 1,600 | 0.003 | E-W(2): | 0.163 |
| Woodbound | ТН | 2.00 | 342 | 3,200 | 0.107 | L W(2). | 0.100 |
| | LT | 1.00 | 91 | 1,600 | 0.057 * | V/C: | 0.688 |
| Northbound | RT | 0.00 | 100 | 0 | 0.000 | Lost Time: | 0.100 |
| | TH | 3.00 | 710 | 4,800 | 0.169 | ITS: | 0.000 |
| | LT | 1.00 | 188 | 1,600 | 0.118 * | | |
| Eastbound | RT | 1.00 | 192 | 1,600 | 0.061 | ICU: | 0.788 |
| | ТН | 1.00 | 493 | 1,600 | 0.308 * | | |
| | LT | 1.00 | 89 | 1,600 | 0.056 | LOS: | С |

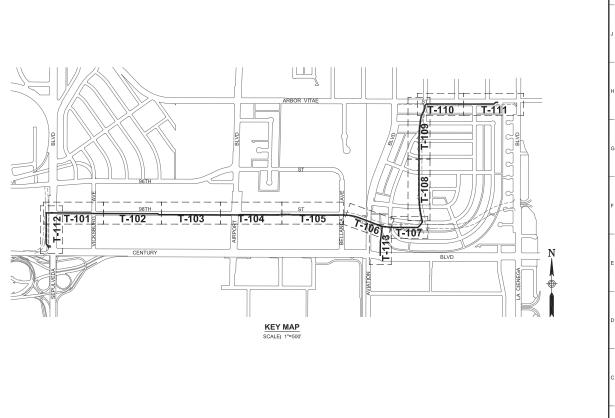
| Project Title: Intersection: Description: | 10 - Pra | ^r Trunk Lin irie Avenue 3ase (2022 | e & Arbor Vitae | e Street | | | |
|-------------------------------------------------|----------|-----------------------------------------------------|-----------------|----------------|-----------|--------------------|---------|
| Thru Lane | e: 1600 | vph | | | N-S | Split Phase : | Ν |
| Left Lane | | | | | E-W | Split Phase : | Ν |
| Double Lt Penalty | y: 20 | % | | | Lost Time | (% of cycle) : | 10 |
| ITS | S: 0 | % | | | V/C Round | d Off (decs.) : | 3 |
| OLA Movements FF Movements | | | | | | | |
| Date/Time: | AM PEA | K HOUR | | | | | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.00 | 257 | 0 | 0.000 | N 8(4). | 0.330 |
| Soumbound | TH | 3.00 | 257 1,174 | | 0.000 * | N-S(1): | 0.330 |
| | LT | 3.00 1.00 | 81 | 4,800 1,600 | 0.298 | N-S(2): E-W(1): | 0.369 |
| Westbound | RT | 0.77 | 148 | 1,233 | 0.095 | E-W(1). E-W(2): | 0.146 |
| vvestouriu | TH | 0.23 | 44 | 367 | 0.095 | ⊏-vv(∠). | 0.241 |
| | LT | 1.00 | 103 | 1,600 | 0.120 | V/C: | 0.610 |
| Northbound | RT | 1.00 | 53 | 1,600 | 0.004 | Lost Time: | 0.010 |
| Northbound | TH | 3.00 | 1,338 | 4,800 | 0.001 | ITS: | 0.000 |
| | LT | 1.00 | 1,338 | 1,600 | 0.279 | 113. | 0.000 |
| Eastbound | RT | 0.84 | 113 | 1,339 | 0.071 | ICU: | 0.710 |
| Lastbound | TH | 0.04 | 22 | 261 | 0.049 | 100. | 0.710 |
| | LT | 1.00 | 193 | 1,600 | 0.121 * | LOS: | С |
| Date/Time: | PM PEA | K HOUR | | | | 1 | |
| APPROACH | MVMT | LANES | VOLUME | CAPACITY | V/C | ICU ANA | LYSIS |
| Southbound | RT | 0.00 | 136 | 0 | 0.000 | N-S(1): | 0.421 * |
| Southbound | TH | 3.00 | 1,382 | 4,800 | 0.316 | N-S(2): | 0.389 |
| | LT | 1.00 | 154 | 1,600 | 0.096 * | E-W(1): | 0.390 |
| Westbound | RT | 0.71 | 567 | 1,143 | 0.090 | E-W(2): | 0.390 |
| | TH | 0.29 | 227 | 457 | 0.440 | | 0.100 |
| | LT | 1.00 | 368 | 1,600 | 0.490 | V/C: | 1.121 |
| Northbound | RT | 1.00 | 118 | 1,600 | 0.230 | Lost Time: | 0.100 |
| | TH | 3.00 | 1,560 | 4,800 | 0.325 * | ITS: | 0.000 |
| | LT | 1.00 | 116 | 1,600 | 0.073 | | 0.000 |
| Eastbound | RT | 0.62 | 159 | 994 | 0.124 | ICU: | 1.221 |
| Lastound | TH | 0.38 | 97 | 606 | 0.124 | 100. | 1.221 |
| | LT | 1.00 | 327 | 1,600 | 0.204 * | LOS: | F |

CONCEPTUAL PLANS FOR THE PROPOSED PROJECT (UNIT 1 ONLY)

APPENDIX C:



| | DWG. NO. | REV. | | |
|------------|------------------------------|------|--------------------------------------------------------------------------------------------------------|--|
| | D05993-T-000 | - | COVER SHEET | |
| | D05993-T-001 | - | DRAWING INDEX AND KEY MAP | |
| 11 | - | - | - | |
| | - | - | - | |
| | D05993-T-101 | - | PLAN AND PROFILE - STA, 1+00.00 TO STA, 11+00.00 | |
| | D05993-T-102 | - | PLAN AND PROFILE - STA. 11+00.00 TO STA. 21+00.00 | |
| | D05993-T-103 | - | PLAN AND PROFILE - STA 21+00.00 TO STA 31+00.00 | |
| | D05993-T-104 | - | PLAN AND PROFILE - STA. 31+00.00 TO STA. 41+50.00 | |
| 11 | D05993-T-105 | - | PLAN AND PROFILE - STA. 41+50.00 TO STA. 52+00.00 | |
| | D05993-T-106 D05993-T-107 | - | PLAN AND PROFILE - STA. 52+00.00 TO STA. 59+50.00 | |
| | D05993-T-107 D05993-T-108 | - | PLAN AND PROFILE - STA. 59+50.00 TO STA. 65+50.00 PLAN AND PROFILE - STA. 65+50.00 TO STA. 76+00.00 | |
| | D05993-T-109 | - | PLAN AND PROFILE - STA. 76+00.00 TO STA. 85+00.00 | |
| | D05993-T-110 | - | PLAN AND PROFILE - STA. 85+00.00 TO STA. 92+00.00 | |
| | D05993-T-111 | - | PLAN AND PROFILE - STA. 92+00.00 TO STA. 98+00.00 | |
| | D05993-T-112 | - | SEPULVEDA/CENTURY REGULATOR STATION CONNECTION - STA. 100+00.00 TO STA. 107+14.84 | |
| | D05993-T-113 | - | CENTURY/ALLEY E/O AVIATION REGULATOR STATION CONNECTION - STA. 200+00.00 TO STA, 205+91.50 | |
| | | | 317, 203-31,30 | |
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